

electronics
estonia



smart
electronics
from Estonia

Estonia's electronics industry

Home of smart electronics

Estonian electronics companies —
your reliable partners

- Estonian electronics sector is one of the largest in Europe per capita.

- Full value chain of R&D, prototyping, precision manufacture, assembly, and service.

- Smart electronics for different industries.

- World-class Electronics Manufacturing Services (EMS) for professional segments.

- Modern practices and innovation — LEAN, Six Sigma, Industry 4.0.

- Environmentally and socially sustainable manufacturing processes.

- Training, design, assembly, and production are organized in strict accordance with IPC standards.

- Professional engineering and aftersales services.

- Estonia is a great test site for the experimental deployment of new products and processes.

- Widespread use of the English language in engineering and IPC training.

Electronics industry in Estonia

Estonia has become the one-stop shop destination for those needing a partner for the whole process from designing to manufacturing of electronics products and systems in Europe. The success of the Estonian electronics sector is attributed to the level of added value, efficient processes, highly responsive product development, and extended presence in globalized markets.



With more than 270 companies and 13,000 employees, the electronics industry is one of the largest industrial sectors in Estonia, with companies focused on customer satisfaction, quality, and growth. The sector contributes 2,5 billion euros annually to the country's exports.

In the last few years, Estonia's electronics industry has demonstrated remarkable resilience during different global crises — Covid-19, the energy crisis, the war in Ukraine and component shortages. Despite this, in 2022, the demand remained high and the sector increased turnover more than 20%, being one of the few growing industrial sectors in Estonia. Electronics companies continued to invest in expanding production, digitalization and automation to meet the ever-increasing demand.

93%

of the Estonian electronics industry's output is exported, making up 23% of Estonian industrial exports (2022). Main export destinations are the United States, Sweden, Finland, and Germany.

The manufacture of electronic and electrical equipment is divided into two sub-branches.

The manufacture of computers, electronic and optical equipment makes up about 70% of the sector's turnover.

The activities of companies range from Electronics Manufacturing Services to producing telecommunications, industrial, medical and automotive equipment and components (PCBs, supercapacitors, power semiconductors, transformers, cables, etc.). The largest companies operating in the sector are Ericsson Eesti AS (mobile network equipment), GPV Estonia AS (electronic components for industrial and medical equipment), Scanfil OÜ (industrial electronics), Stoneridge Electronics AS (automotive electronics), AS Eolane Tallinn (communications equipment) and FLIR Systems Estonia OÜ (thermal imaging cameras, components, and imaging sensors).

The manufacture of electrical equipment makes up the remaining 30% of the sector. The largest companies in the sector are ABB AS (the production of electrical distribution equipment and power generators), Ensto Estonia AS (electrical distribution equipment and control equipment), AS Konesko (electric motors and equipment), Prysmian Group Baltica AS (cables and cable harnesses), Amphenol ConneXus OÜ (interconnect products), AS Glamox

(lighting solutions) and AS Harju Elekter (electrical equipment for power distribution).

Electronics manufacturing is dominated by local branches of international corporations managing large-scale export production. A number of these companies also have their development teams in Estonia or use local engineering services. Estonian companies offer mainly engineering services and are eager to develop innovative products and technologies.

Excellent skills, flexibility, and a highly efficient business environment make Estonian companies valuable cooperation partners. Companies established in Estonia greatly benefit from simple labor and tax legislation combined with a conservative economic policy. Modern ICT solutions make operating a business extremely efficient and convenient, saving time and money.

For example, a company can be started online in just 15 minutes. Local value chains work smoothly, from developing ideas and manufacturing prototypes to large-scale volume production. This is why companies such as Ericsson, ABB, Stoneridge Electronics, Scanfil, NOTE, GPV, Eolane, and FLIR Systems operate in Estonia.

270+ companies
13,000 employees
Turnover: EUR 2,5 billion
93% exported

The Estonian Electronics Industries Association

The Estonian Electronics Industries Association is a voluntary non-profit organization with the primary objective of promoting cooperation between member companies, schools, and the public sector to increase the competitiveness of the Estonian electronics industry. The association works closely with government agencies and ministries, representing the views and interests of the electronics industry. The association also focuses on popularizing electronics education among youth to ensure the next generation of high-skilled specialists to lead the industry.

Our 80 member companies cover the value chain of the electronics industry in its entirety, including R&D, product development, testing, manufacturing, repair, recycling, logistics, supply of components, consumables, and equipment, as well as education, professional training, and recruitment.

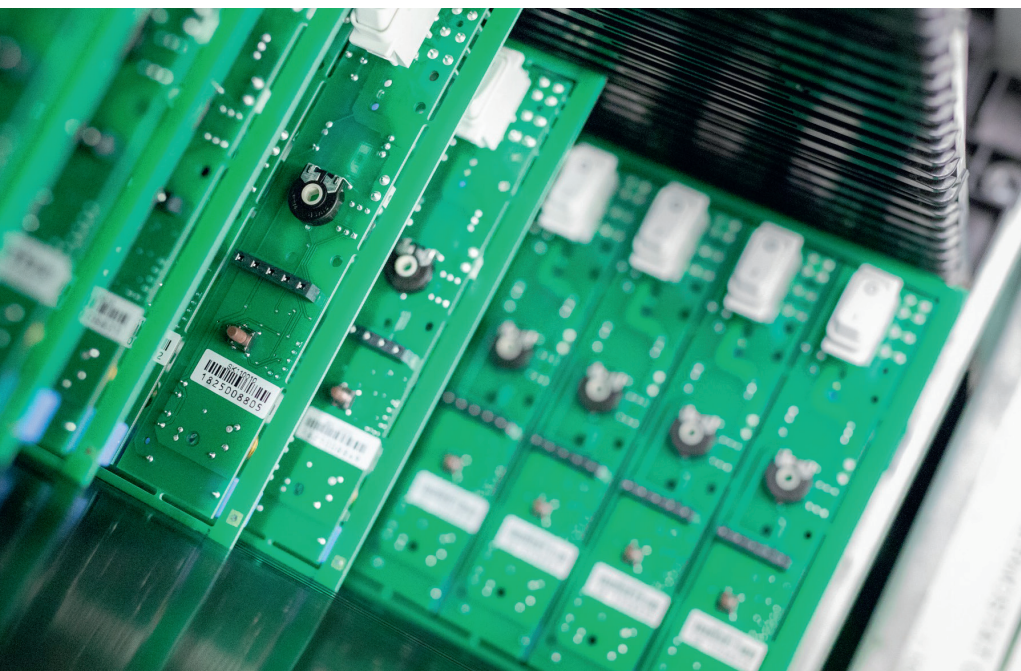




Photo by Renee Altrov

THE ASSOCIATION OFFERS:

- a single point of contact for potential customers, suppliers, partners, and investors;
- joint marketing activities for our members;
- contacts with governmental authorities and other organizations;
- facilitating R&D collaboration between members and external entities;
- international seminars, conferences, and workshops.

Akadeemia tee 23
12618 Tallinn, Estonia
info@estonianelectronics.eu

+372 56 665 778

ESTONIANELECTRONICS.EU

ESTONIA AT A GLANCE

Innovative technologies, skilled professionals, and Nordic business ethics make Estonia a smart choice.

OFFICIAL NAME

Republic of Estonia

CURRENCY

Euro

MEMBERSHIPS

EU, NATO, OECD, Schengen area

AREA

45,339 square km neighbouring
Finland, Sweden, Latvia, and Russia

POPULATION

1.37 million. Estonia is one of the least
densely populated countries in the
world.

CAPITAL

Tallinn — 461,000 inhabitants

OTHER MAJOR CITIES

Tartu (97,400), Narva (53,600), Pärnu
(51,900), Kohtla-Järve (32,600)

LANGUAGE

Estonian. Other languages such as
English, Russian and Finnish are also
widely spoken.

TIME ZONE

GMT + 2 hours

DISTANCES FROM TALLINN

Helsinki 85 km, Riga 307 km,
Stockholm 405 km, Vilnius 605 km,
Rotterdam 2,194 km

FLIGHT TIMES

Helsinki 35 min, Stockholm 1 h,
Copenhagen 1 h 30 min, Frankfurt
2 h 20 min, Amsterdam 2 h 20 min,
London 2 h 45 min

TAXES

Companies registered in Estonia do not
have to pay income tax on reinvested
profits. Today 95% of income tax
declarations are submitted online. Profit
extracted as dividends is subject to
corporate income tax ranging from 14%
to 20% (2023).

ELECTRONIC SERVICES

Estonia is the most advanced digital
society in the world, where 99% of
state services are available online.
Documents can be signed digitally
with the national ID card, considered
legally equal to a normal signature. All
web environments that offer e-services
can be accessed with the ID card.
E-residency is available to foreign
nationals who want to benefit from
Estonian electronic services.

BANKING

The Estonian banking sector is
comfortably IT-facilitated, quick, and
flexible. 99% of banking transactions in
Estonia are done electronically.

ADDform

KEYWORDS

- Additive
- Manufacturing
- Supplier
- MJF
- SLS
- SLA
- Polyjet
- FDM
- Assembly services
- 3D Scanning and Design Services

APPLICATIONS AND MARKETS

Applications examples

- End-user parts
- Jigs, fixtures, alignment and assembly tools
- Bridge tooling
- Potting molds
- Custom 5S organizational tools
- Inspection

ADDFORM OÜ

Värvi tn 5
10621 Tallinn, Estonia

jason.clark@addform.eu
+372 5697 5887

ADDFORM.EU

BUSINESS OVERVIEW

ADDform offers the highest quality 3D printing services, component assembly, 3D scanning, and design services without compromise. Additionally, we have a state-of-the-art coloring system that can dye multiple colors, we can offer wet paint matt and gloss and clear protective coat the details where requested, including ESD coatings.

WE OFFER

- Printing
- Design
- Scanning Services
- Assembly



Breakthrough
3D Printing Productivity



CORE COMPETENCIES

- OEM manufacturing
- Flexibility
- Hardware testing

PRODUCTS

- Bus information LED displays
- Railway LCD information screens
- Bus stops
- Smart pedestrian crossing signs
- Airport LED information solutions

BUSINESS OVERVIEW

We are an OEM and Smart City solutions manufacturer, that produces durable LED and LCD screens for intelligent traffic management systems. Our aim is to transform data into user-friendly visual information, streamlining operations and enhancing decision-making for improved mobility. We cater to global B2B clients, offering cutting-edge hardware in this product category. Our commitment to user experience and customer satisfaction simplifies project management.

We prioritize providing exceptional support and products to end customers, system integrators, and turnkey solution providers, saving you time and ensuring a smoother decision-making process. Trust us as your experts in the field.

WE OFFER

Production of environmentally resistant LED and LCD information screens used in intelligent traffic management systems.



AMPRON OÜ

Uus-Ringi tee 7, Juri alevik,
Rae vald, Harjumaa,
75301, Estonia

info@ampron.eu
+372 5663 3143

AMPRON.EU



KEY FACTS

- Durable floor coating solutions
- Conductive ESD coatings and floorings, ATEX
- Training, consulting, measuring

CORE COMPETENCIES

- Durable floor coating solutions
- Conductive ESD coatings and floorings, ATEX
- Expansion joint and sill repair
- Waterproofing and encapsulation
- Training, consulting, measuring

BUSINESS OVERVIEW

Armeka Engineering Oy was established in 1991. Our core competences are floor coatings and ESD coatings, including all related coatings, floor contracting, and repairs.

INTERNATIONAL OPERATIONS

Our head office is located in Espoo, Finland. We also operate in the Baltics, China, and Sweden.

Ari Korpipää is one of Finland's two representatives in the EN IEC standardisation committees that develop the ESD standards for the electronics industry and health-care.

The committees meet annually around the world.

IEC standards:

- IEC 61340-6-1
- IEC 61340-5-1
- IEC 61340-4-1
- IEC 61340-2-3
- IEC 61340-5-3
- IEC 61340-4-5



**ARMEKA
ENGINEERING
EESTI OÜ**

Kalaranna 8/10, Tallinn

+358 40040 5488

ari.korpipaa@

armekaengineering.com

ARMEKAENGINEERING.COM

FROM IDEA TO PRODUCT

We help customers turn their innovative ideas into tangible electronic products.

KEY FACTS

- 25+ years
- 150+ clients
- 500+ projects
- 65,000+ devices

PRODUCT EXAMPLES

- EMV ticketing systems
- Scientific equipment
- Smart home products
- Motor control boards
- E-paper signage
- VLC & FSOC devices
- P2P microwave links

BUSINESS OVERVIEW

Artec Design is a product development company covering the complete design cycle of an electronic product, including conceptualisation, electronic, mechanical, FPGA and software design as well as production. Established in 1998, Artec Design has strived to constantly improve its standards in order to provide high quality services to clients from Finland, Germany, Japan, USA and many other countries. Furthermore, Artec Design has also been granted the ISO 9001 certificate.

WE FOCUS ON

- Development and manufacture of devices for embedded applications
- Integration of software and hardware products based on customer requirements

Our portfolio includes devices developed to industries ranging from automotive, defence, telecom, non-invasive medicine as well as smart home solutions among others.

WE OFFER

- Schematic design and PCB layout
- FPGA design
- Firmware and software development
- Industrial design
- Prototyping and production

ARTEC DESIGN OÜ

Akadeemia tee 21/1
Tallinn 12618, Estonia

info@artecdesign.ee
+372 671 8550

ARTECDSIGN.EE



CORE COMPETENCIES

- Electroacoustics
- Audio reproduction
- Experienced engineering support
- Quick and reliable production

CERTIFICATES

- ISO 9001:2015

CLIENT PORTFOLIO

- Producers of industrial electronics
- Producers of loudspeakers for high quality stereo systems and home cinemas

BUSINESS OVERVIEW

The history of Audes LLC OÜ can be traced back to year 1935. The factory has been operating on its current premises since 1959. The company manufactures high quality loudspeakers for stereo systems and home cinemas, soundbars for various TV sizes and screens, as well as audio tube amplifiers. Audes LLC OÜ also produces cabinets for high end loudspeakers with various high quality surface finishes under OEM terms for the world leading audio equipment brands.

Another branch of the company's activities focuses on transformers which are produced in a broad range of form factors according to the drafts and drawings of the customer. The factory is fully equipped for producing various types of transformers in small and medium sized batches. If necessary the company can develop transformers according to the customer's requirements. In addition, Audes LLC OÜ provides assembling services for electrical units, control panels and equipment, as well as complete assemblies, quality control and packaging.

WE OFFER

- Production of transformers (Toroidal, EI, UI, 3UI, PCB mounting, ferrite, chokes)
- Production of electrical assemblies
- Production of audio equipment

AUDES LLC OÜ

Pae 3a
41533 Jõhvi, Estonia

audes@audes.ee
+372 33 95 651

AUDES.EE



Conversion Electronics

CONVELE

CORE COMPETENCES

- Power Electronics
- IoT
- RF
- Embedded Systems
- Mixed Signal

BUSINESS OVERVIEW

The passion of Conversion Electronics is to create value by offering high quality electronics design services.

SYSTEM DESIGN

- Feasibility Studies
- High Level Architectural Design
- Compilation of Technical Specifications

HW DESIGN

- Simulations
- Schematic Capture
- PCB Layout
- Prototype Production
- Production Management
- Testing and Verification
- DFM, DFA, DFT

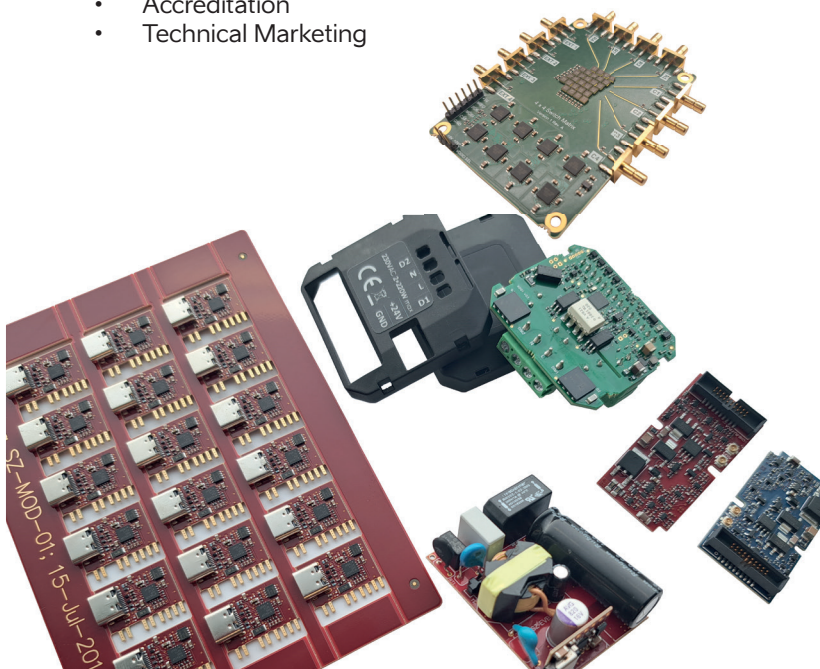
CONSULTATION

- Compliance to Standards - EMC, Safety
- Quality Management Systems
- Accreditation
- Technical Marketing

**CONVERSION
ELECTRONICS**

info@convele.eu
+372 553 3080

WWW.CONVELE.EU



**EXPERT IN AUTOMATION, MACHINERY AND
EQUIPMENT PROVIDING AND MAINTENANCE**

BRANDS

- DMG MORI
- Universal Robots
- Mobile Industrial Robots
- Robotiq
- OnRobot
- Indeva
- Vention
- Cajo

OUR PRODUCTS

- Machining and turning centers
- Lasertec and Ultrasonic machines
- Additive manufacturing machines
- Collaborative robots
- Autonomous mobile robots
- Automation solutions
- Laser marking
- Maintenance and repairing

BUSINESS OVERVIEW

Demek CNC supplies metal processing machine tools, accessories, equipment and automation solutions. We provide a complete solution that includes the selection of equipment necessary for production, its installation and maintenance, technology development, training, programming and automation of production. Our key advantages are competence, flexibility, and response speed, along with experienced employees who have been working in this field for up to 30 years.

WE OFFER

- DMG MORI machining and turning centers, grinding, laser and additive manufacturing machines.
- Universal Robots collaborative robots.
- Mobile Industrial Robots internal transportation and material handling solutions.
- Indeva manipulators and lean systems.
- Vention aluminum profiles and equipment made from profiles, mainly for automation
- Cajo laser marking machines.

DEMEK CNC OÜ

Artelli 8c
10621 Tallinn, Estonia

info@demek.ee
+372 520 9121

DEMEK.EE



CORE COMPETENCIES

- Quality
- Flexibility

WE OFFER

- Cable assemblies
- Wire assemblies
- Wire harnesses

CERTIFICATES

- ISO 9001
- ISO 14001
- UL-certified cable production

BUSINESS OVERVIEW

Electronics Manufacturing Services and Cable Assemblies

WE OFFER

- Full-service Contract Manufacturing of cable assemblies and electronic products from prototype manufacturing to large-scale volume production
- High-quality manufacture of customer specific cable and wire assemblies

WE ARE

Reliable partner in cable assemblies and electronic products with more than 30 years of experience

DICRO EESTI OÜ

Võidu 120
44312 Rakvere, Estonia

sales@dicro.fi
+358 9 224 88 20

DICRO.FI



PRODUCTION AND INSTALLATION OF LED INDUSTRIAL LIGHTING

WHAT WE DO

- IT outsourcing

CORE COMPETENCIES

- Developing solutions
using AI

BUSINESS OVERVIEW

E-SYNERGO is a dynamically developing company that manufactures, trades, and provides services in the field of electrical engineering. The company offers customers a wide range of products and services in Europe, Asia, and America. E-SYNERGO's success is attributed to its extensive experience, knowledge of the market situation, close-knit team, and full commitment to its business.

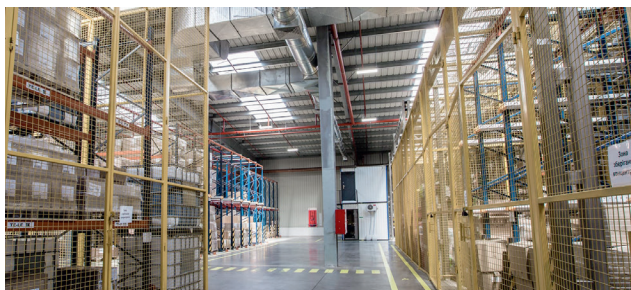
- Website development on WordPress.
- Plugins for automating the activities of online stores using artificial intelligence
- Experience with cloud systems: AWS, Heroku. JavaScript (ES6), PHP (5.6, 7)
- Using Node / PHP frameworks (Express, Koa, Laravel, Slim, Codelgniter).
- Front-end development: React, Vue.js.
- Mobile Development: React Native, Ionic Framework Experience in asynchronous programming.
- Writing unit tests (Mocha, Chai, Sinon).
- Knowledge of algorithms, design patterns.
- Using package managers (Npm, Yarn, Composer), package systems (Webpack, Gulp)
- Database design.
- Working with caching systems (Memcached, Redis). Working with version control systems (git, mercurial) Search engines (Elasticsearch, Solr)
- Logging systems (ELK)
- Docker, Vagrant
- Integration, writing your own API services. (Rest, GraphQL)
- Code deployment (Jenkins. CicrcleCI)

E-SYNERGO OÜ

Tallinn, Estonia, Ehitajate
tee 114-2

info@e-synergo.eu
+372 699 1589

E-SYNERGO.EU



BRANDS

- TRESTON
- AUER Packaging
- Kongamek
- Tellure Rota
- GLOBAL STOLE

OUR PRODUCTS

- ESD technical furniture
- ESD storage boxes and containers
- ESD trolleys

BUSINESS OVERVIEW

We have more than 15 years of experience supplying technical furniture and various ESD-accessories in Estonia and Latvia. Elbest is an authorized distributor of TRESTON, one of the world's leading suppliers of industrial furniture and workstations. Our customers can rely on us to provide them with expert services for building quality ergonomic work environments. Our wide range of ESD-products are suitable for use in ESD protected areas (EPA) and meet all requirements of the electronic industry.

- Authorized distributor of TRESTON technical furniture
- Authorized distributor of AUER PACKAGING plastic storage products
- Authorized distributor of KONGAMEK trolleys

ELBEST KAUBANDUS OÜ

Männiku tee 104/1
Männiku Ärimaja
11216 Tallinn, Estonia

+372 675 5404
info@elbest.ee

ELBEST.EE



OUR PRODUCTS

- Blasting machines and line ohmmeters
- Radiation measuring devices
- Radiation gates

WE PROVIDE

- Portable light-weight deflectometers.
- Pavement walking and stationary profilometers, leveling systems for graders and bulldozers.
- Vehicle sensors for security and area surveillance, traffic counters.

ENGLO LLC IS A MEMBER OF

- Estonian Chamber of Commerce and Industry,
- Tallinn Science Park Tehnopol and
- Estonian Defence and Aerospace Industry Association

We are active in the production of electronic and fine mechanical devices and measuring devices that are used in

- mines and military,
- rescue,
- road construction quality control,
- building,
- area monitoring systems etc.

The LWD deflectometer INSPECTOR-5, blasting machine PONGO, the walking profilometer GAPMAN, the vehicle sensor MAMBA



ENGLO LLC OÜ

Akadeemia tee 21/1
12618 Tallinn, Estonia

info@englo.ee
+372 670 2444

ENGLO.EU

KEY FACTS

- 375+ employees
- 7600 m² facility

CERTIFICATES

- ISO 9001 Quality Management
- IATF 16949 Automotive Quality Management
- ISO 14001 Environmental Management
- ISO 45001 Occupational Health & Safety Management



EOLANE TALLINN AS

Suur-Paala 19
Tallinn, Estonia

Oleg Sorokin
oleg.sorokin@eolane.com
+372 5680 6738

Sales.tallinn@eolane.com
+372 684 9000

EOLANE.EE

BUSINESS OVERVIEW

Our new factory is a great opportunity to offer to both our customers and our employees state-of-the-art conditions. With a production space which is planned to increase by one third every 3 years, we definitely have the ambition to foster and broaden even further our partnerships.

25+ years of experience in telecommunications remain an important part of our operations to this day.

In the last 5 years, we have developed our expertise beyond the historical telecom and multimedia market segment. Automotive electronics and LED-lighting applications are our most dynamic fields of activities. Meanwhile, we participate in the worldwide trend of connectivity and "green energy" development.

WE OFFER

Eolane Tallinn offers wide range of electronics manufacturing services (EMS) from creating conception and prototypes for your project to dispatching final goods directly to end customer.

The company specializes in services consisting of low/medium volume with medium/high-mix PCBA production, subassembly and systems assembly, testing, new product introduction, life cycle engineering, test system development, sourcing, supply chain management, logistics and repair including After Market Services.

SEGMENTATION

Today we serve multiple different customers in 3 main sectors: Automotive, Telecom and Industrial



IMAGINE POSSIBLE!

TEAM ERICSSON

- 5G leader bringing it to five continents
- Serve customers in more than 180 countries
- 105 500 employees across continents
- Patent portfolio of more than 60,000

ERICSSON ESTONIA IS PROUD OF

- Cross-functional collaboration in diverse teams amongst 2200 employees
- Learning organizational mindset, Smart Manufacturing and fit-for-purpose way of working
- Best Work Environment 2020, Environmentally Friendly Enterprise 2020, Foreign Investor of the Year 2020, Practic Cum Laude 2021
- Responsible Business Index Golden level (2016/ 2017;2019/ 2021;2023/2025)
- ISO 9001:2015; ISO 14001:2015; ISO 45001:2018; ISO 27001:2013

ERICSSON EESTI AS

Valukoja 8, Tallinn, Estonia
ericsson.estonia@ericsson.com
+372 606 5000

ERICSSON.COM

WE ENABLE

Ericsson is one of the leading providers of Information and Communication Technology (ICT). We enable the full value of connectivity by creating game-changing technology and services that are easy to use, adapt, and scale, making our customers successful in a fully connected world. Ericsson's innovations have delivered the benefits of mobility and mobile broadband to billions of people globally.

We are a sustainability pioneer. Sustainability and responsible business practices are fundamental to Ericsson's culture and strategy of driving business transformation and creating value for stakeholders.

ERICSSON ESTONIA

Ericsson has operated in Estonia for 27 years, 14 years of which we have had a manufacturing site. We are the enablers of efficient industrialization and telecom product development through smart manufacturing. This innovation site has cutting-edge technology and world-class experts developing new Ericsson Radio System products. Thanks to us 5G is a reality — the next generation of wireless technology and products are developed right here in Tallinn and delivered to customers around the world.

As we are working in the Industry 4.0 industrial revolution era, it means that absolutely everything is connected and interconnected. Smart manufacturing enables digitalization, cognitive solutions, and collaboration with robots and Supply Site Tallinn truly showcases this modern technology and smart solutions. We believe in innovation and continuous competence growth. We experiment, learn, and challenge ourselves every day – come and do it with us!



FINELTEC BALTIC

FINELTEC

CORE COMPETENCIES: BUSINESS OVERVIEW

- PCB Assemblies
- System Integrations,
Wire harnesses
- Prototypes NPI
- Life-cycle Services
- Medical device solutions

CERTIFICATES:

- ISO 9001
- ISO14001
- ISO13485
- IPC-A-610

AWARDS

- EcoVadis Silver
Sustainability Rating

Fineltec was established over 25 years ago in 1993, and our combined experience exceeds 1000 years. We started our business as a fine mechanics provider for the telecom industry. Our own production at our Oulu factory started in 1996, manufacturing cables. In 2004 we started manufacturing electronics at our Estonian factory in Tallinn. As our business expanded, all production was moved to our current premises in Koeru, Estonia.

Our production facility is 4000 m², with more than 50 employees. Our current production facilities enable manufacture, assembly and testing of electronics, as well as cables and wire harnesses. Our production principles comply with lean manufacturing methods.

We are proud to serve companies active in the energy industry, industrial automation & IoT, instrumentation & measurement, military & defence and safety & security industry, as well as the building automation industry. As an experienced contract manufacturer, we consider ourselves a preferred partner within all these fields of industry.



FINELTEC BALTIC OÜ

Tiigi 3, Koeru 73001
Järvamaa, Estonia

+358 20 735 3060
info@fineltec.fi

FINELTEC.FI



WHAT WE DO

Staffing and recruiting across borders to find the perfect solution

KEY CLIENTS

- ABB
- Ericsson
- Eolane
- Enics
- Note Leab

BUSINESS OVERVIEW

Finesta has grown to become a leading provider of HR services across Europe. We help you find the right talents for a wide range of services from production to engineers and IT specialists. For over a decade we have been a trusted partner for many electronic manufacturing companies in the Baltic and Nordic region.

FLEXIBLE WORKFORCE SOLUTIONS FOR A WIDE RANGE OF PROFESSIONALS:

assembly, production specialist, development & design engineers, software engineers

FINESTA BALTIC OÜ

Pärnu mnt 158
Tallinn, Estonia

info@finestaworks.com
+372 680 6232

FINESTAWORKS.COM



KEY FACTS

- Personnel — 1000
- Total area — 15 000m²
- Products — 2400

AWARDS

- Ecovadis Silver medal for Sustainability (GPV group)
- Diversity and Inclusion[™] label awarded at Estonian Recruitment and Marketing Awards 2023
- 2021 Family Friendly Employer - SILVER level
- Certificate in Sustainable Entrepreneurship 2019

CERTIFICATES

- ISO 9001 — Quality Management
- ISO 14001 — Environmental Management
- ISO 45001 — Health and Safety Management
- ISO/TS22163 IRIS — Railway[™]

GPV ESTONIA

Valga mnt 7a, 61504
Elva, Estonia

+372 5432 0153
kristjan.erm@gpv-group.com

GPV-GROUP.COM

BUSINESS OVERVIEW

At GPV, we enable you to accomplish more through excellent performance across the high-mix EMS value chain. Our ambition is clear and straight-forward: We must be the most trusted, powerful, and top-of-mind EMS partner to our customers.

GPV is the partner of choice for industrial electronics manufacturing in the fields of Industrial technologies, Building Tech, Transportation, Measurement&Control, CleanTech, Medical Technologies, HighTech Consumer. Our main focus is customer satisfaction through solid Quality-Delivery-Cost performance.

As one of the largest employers in South of Estonia, GPV Estonia is part of GPV Group. GPV Group has 19 manufacturing and engineering units across the world in Europe, Asia and Americas.

GPV Estonia provides full range of Lifecycle Services starting from early engineering support, serial manufacturing and after-sales services to logistics and supply chain management. Our world-class offering includes electrical and mechanical design and engineering, fast prototyping, new product introduction (NPI), cost reduction services, test system development, printed circuit board (PCB) and box build assembly, also system assembly as well as product repair and maintenance. In addition to electronics, GPV Group has in-house cable harness and mechanical production."



CORE COMPETENCIES

- Workforce services

TRAINING

- electronics, robotics, welding, metal CNC milling

WE OFFER

- recruiting, training, and custom made workforce solutions for electronics, metal, wood, and other industries.

BUSINESS OVERVIEW

At Hansavest, we are passionate about providing workforce solutions to manufacturing and industrial companies. Since 2005, we have been dedicated to offering flexible and smart options to our clients, whether they need long-term specialists or short-term help.

We are proud to say that we are a trusted partner not only in Estonia but also in Latvia, Finland, and Sweden. Our goal is to continue expanding our reach and providing high-quality services that exceed our expectations. We specialize in recruiting, training, and offering custom-made workforce solutions.

We work with a variety of industries, including electronics, metal, wood, and more. We have our own training center where we test and improve the skills of our employees to ensure that your vacancies are filled with the right competencies!

With Hansavest, you can rest assured that you're getting smart workforce solutions that are tailored to your business needs."

HANSAVEST RENTAL OÜ

Juhkentali 52, 10412
Tallinn, Estonia

info@hansavest.com
+372 5399 7944

WWW.HANSAVEST.COM



HANZA CLUSTER BALTICS

HANZA
ALL YOU NEED
IS ONE™

CERTIFICATES

- ISO 9001 Quality management
- ISO 14001 Environmental management
- ISO 45001 Occupational health and safety management
- ISO 3834-2 Welding
- ISO 13485 Quality management of medical manufacturing

BUSINESS OVERVIEW

We have a very important role in our community to empower innovation and sustainability. We do this by helping product owners (our customers) to focus their time, resources and expertise on developing and marketing new innovative products rather than manufacturing and supply chain.

We work long term to create sustainable manufacturing clusters (using multiple technologies), resulting in (minimization) of transportation and impact on the environment. The advisory services we develop and provide gives product owners a faster and more cost-effective journey towards their goal: A more innovative, competitive and sustainable business model.

WE OFFER

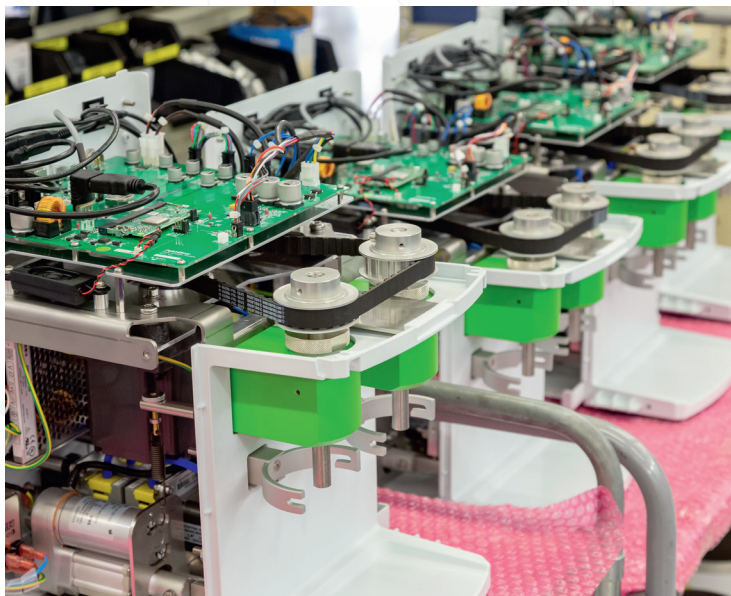
Cluster Baltics offers manufacturing services for a large variety of products and technologies — sheet metal, machining, welding, powder painting, surface treatment, cable assembly and also final assembly of complex products containing parts of the previously mentioned technologies.

HANZA MECHANICS TARTU AND NARVA

Silikaadi 5
Vahi, Tartumaa, Estonia

+372 562 426 33
liivar.kongi@hanza.com

HANZA.COM



CORE COMPETENCIES

- Prototyping and engineering
- PCB assemblies manufacturing
- Box-build assembly
- Customised solutions
- Engineering services
- After-sales services

CERTIFICATES

- ISO 9001
- ISO 14001
- ISO 45001
- ISO 13485
- ABS MA Certificate

CLIENT PORTFOLIO

- Industrial electronics
- Consumer electronics
- Medical electronics
- IoT
- Energy



INCAP ELECTRONICS ESTONIA

Tehnika 9
93815 Kuressaare, Estonia

salesestonia@incapcorp.com
+372 45 217 23

INCAPCORP.COM

BUSINESS OVERVIEW

Incap Electronics Estonia is a trusted partner and one-stop-shop in electronics manufacturing services with experience since 2000. Our factory in Kuressaare, with a total floor space of 7,300 m², offers versatile, technologically advanced yet cost-efficient production capacity. 79% of our production is exported worldwide, serving customers across Europe, Scandinavia, and North America. Our valued clientele includes a wide spectrum of businesses, from large multinationals to innovative startups. With a growing demand for electronics contract manufacturing, especially in demanding electronics applications, Incap is well-positioned to serve our global customer base.

Incap Electronics Estonia is part of Incap Corporation – a trusted partner and full-service provider of Electronics Manufacturing Services. Incap offers state-of-the-art technology backed up by an entrepreneurial culture and highly qualified personnel. The company operates in Finland, Estonia, India, Slovakia, the UK, the USA, and Hong Kong and employs approximately 2,330 people. Incap's share has been listed on the Nasdaq Helsinki Ltd stock exchange since 1997.

WE OFFER

Incap offers electronics manufacturing services from prototyping to mass production. Full services from engineering to testing and logistics solutions for PCBA and box-build products:

- Manufacturing of PCB assemblies and box-build integration, from prototypes to mass production.
- Fast and flexible full service from engineering to manufacturing and testing.
- High-quality on-time deliveries and cost-efficiency.
- Support for prototype projects and new product introduction, which is a part of Incap's design validation services.

CERTIFICATES

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- ISO 13485:2016

CLIENT PORTFOLIO

- Industrial and consumer electronics
- Medical electronic equipment
- Machinery and equipment construction

BUSINESS OVERVIEW

Inission is a total supplier of tailor-made customer solutions in the field of advanced industrial electronics and mechanics with business units in Estonia, Sweden, Norway, Finland and Denmark. We aim to be a strategic partner that strives for total economic efficiency throughout the whole value chain.

In our opinion, quality is not merely about functioning, sustainable products with a long lifespan. It's also about delivery precision, optimized economy, and good customer relations. As part of our ISO certification, we continuously measure customer satisfaction — as it is you, the customer, who judges whether or not we are achieving the quality we strive for.

In Estonia we operate two factories, where we manufacture electronics and electromechanical products — including printed circuit boards, equipment components and electronic integrated solutions, as well as complex and highly precise products from thin sheet metal. We are focused on innovation and top-level production, which allows us to keep up with the growth of customer needs and offer them flexible solutions.

WE OFFER

We offer demanding industrial customers tailor-made development and manufacturing services for complete electronic and mechanical products that guarantee the best sustainable business value and overall economy.



INISSION TALLINN OÜ

Sõstramäe 8
13816 Tallinn, Estonia

info.tallinn@inission.com
+372 606 4420

[INISSION.COM/EN/
CONTACT/TALLINN/](https://inission.com/en/contact/tallinn/)



CORE COMPETENCIES BUSINESS OVERVIEW

- Interflux® soldering
- process materials
- Ersa manual soldering and rework stations
- Ersa soldering machines
- KOLB cleaning machines
- KOLB cleaning chemistry
- PVA conformal coating machines
- SAKI 2D and 3D AOI
- Piergiacomì ESD hand tools
- Technical support and advice

Interflux Eesti OÜ was established in 2002 and is a leading supplier to the electronics industry. The company is a part of the Interflux Electronics® group.

WE OFFER:

- A complete solution for the soldering and rework processes
- A complete solution for stencil, PCB and machine parts cleaning processes
- 2D and 3D component inspection
- Fluid dispensing and selective conformal coating solutions
- Installation, spare parts and maintenance of machines
- Consumables for the electronics industry



INTERFLUX EESTI OÜ

Piiri 9 76610
Keila, Estonia

office@interflux.ee

INTERFLUX.EE

SAKI

PVA



PIERGIACOMÌ
QUALITY HAND TOOLS



kurtz ersa

BOLIDEN

BOSS

CORE COMPETENCIES

- Electrical cabinets
- Electrical backplates
- Box-build assemblies
- Cable-harness assemblies
- Various electro-mechanical assemblies

CERTIFICATES

- ISO 9001
- ISO 14001
- ISO 45001
- ISO/TS 22163 IRIS
- UL 508A
- EN 15085

CLIENT PORTFOLIO

- Industrial electronics manufactures
- Railway equipmen manufactures
- Energy/Green energy equipment manufacturers

INTERCONNECT PRODUCT ASSEMBLY AS

Peetri village
Rae parish
75312 Estonia

Roman Klepikov,
MB Member
Roman.Klepikov@ipa.ee
+372 52 65 085

IPA.EE

BUSINESS OVERVIEW

Established in 1999, Interconnect Product Assembly AS is an independent privately owned company specializing in the production of electromechanical solutions from simple cable harnesses to complex fully functional assemblies.

Modern purpose built facility of 5,600 m2 is located 1 km from Tallinn International Airport and 5 km from Tallinn city center.

95% of IPA products are exported across the world (Europe, USA, Asia and Australia). Along with manufacturing service IPA provides design and development support to the customers.

WE OFFER

- Design support at prototype stage
- Sustainable manufacturing service
- Manufacturing optimization — cost and time
- 100% electrical and complete functional testing
- Efficient and cost effective logistics solutions
- Delivery to the final user site



CORE COMPETENCIES

- Cleanroom equipment
- Component Placement
- Conveying
- Depaneling
- Dispensing
- Laser marking
- Part Feeding
- Pin Insertion
- Plastic laser welding
- Press Fit
- Pressing
- Soldering
- Test Fixtures
- Test Handlers
- Testing (In Circuit, Functional, Final, Programming)
- Welding

CERTIFICATES

- ISO 9001

IPTE AUTOMATION OÜ

Peterburi tee 34/11A
11415 Tallinn, Estonia

info@ipte.com
+372 (0) 6 391 770

IPTE.COM

BUSINESS OVERVIEW

IPTE supplies automated production equipment around the world for the manufacturing industry.

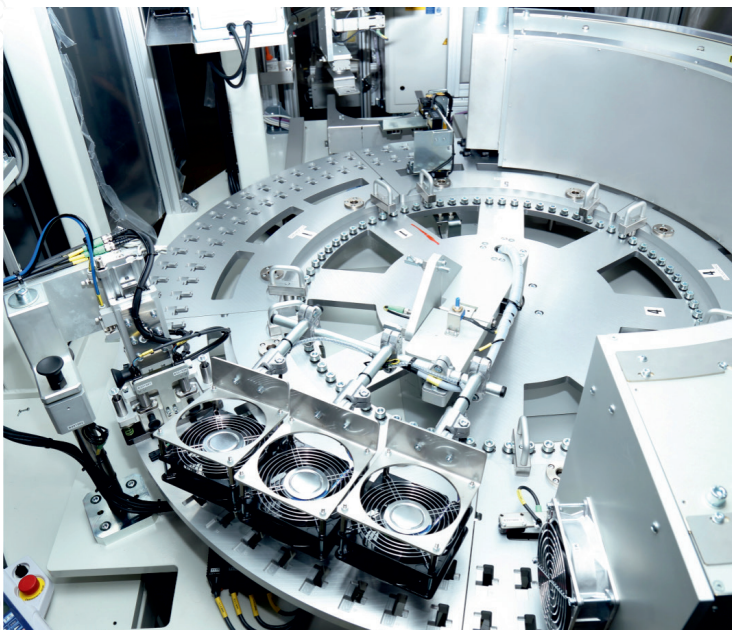
We offer standard systems, custom-designed assembly systems and turnkey test and automation that ensures highquality products, delivered on time and on budget.

WE OFFER

IPTE is present worldwide, with factories in close proximity to customers' manufacturing sites, each providing 24-hour accessibility and fast responses.

Long-standing partnerships with customers enable a continuous evolution of equipment and technology as we together identify new opportunities. We constantly assess new processes and process improvements to offer competitive automation solutions based on our three main competences:

- Test
- Production Processes
- Assembly



CERTIFICATES

- ISO 9001:2015
- ATEX (EN ISO/IEC 80079-34 (2011))

BUSINESS OVERVIEW

Flexible EMS production - Jotel is your trusted partner in the manufacturing of subassemblies and electronic devices. Jotel Tallinn is part of Jotel Group with factories in Tampere, Finland and in Tallinn, Estonia.

WE OFFER

- Prototyping and Engineering
- Industrialisation
- Printed circuit board (PCB) Assembly
- Coating
- Box build
- Sourcing and supply chain management

A partner from design to delivery of finished products.

JOTEL OÜ

Peterburi tee 66
11415 Tallinn, Estonia

info@jotel.com
+372 5306 6793

JOTEL.COM



CORE COMPETENCIES

Our engineers have many years of experience as system developers and manufactures in helping clients successfully complete hundreds of automation projects in every major industry.

- Motor Control Systems
- Power Electronic
- Embedded Systems
- Software Development
- Digital Signal Processing
- Motors / Generators

BUSINESS OVERVIEW

KASKOD-MTRONIX - a fast-growing high-tech Mechatronic Engineering Company. We provide cost-optimised embedded motor control systems based on modern microcontrollers and processors. The complexity of our products ranges from inexpensive single-microcontroller systems to networks of many hundreds of subsystem controllers that autonomously operate in harsh environment. We offer technically innovative mechatronic solutions based on Switched Reluctance Motors/ Generators that rely on the integrated electrical and computer control systems critical to their operation.

WE OFFER

We offer a full range of services for the development, manufacture and support of customized highly reliable Embedded computers, Embedded Systems and Switched Reluctance Drive/Generator systems for low, medium and high RPM applications.

- Embedded Electronic Systems
- Power Electronic Solutions
- Build-in Switched Reluctance Motors / Generators

Constant improvement, optimal efficiency and an environmental conscience you will always meet in our company.

KASKOD-MTRONIX
OÜ

Posti 27
74805 Loksa, Estonia

info@kaskod.ee
+372 556 639 18
+372 519 600 48
+372 533 386 77

KASKOD.COM



Kat Metal Estonia



CORE COMPETENCIES

- Electronic Waste
- Recycling
- PCB Purchasing
- Quality

CERTIFICATES

- ISO 9001
- ISO 14001
- Strongest in Estonia
2022 AAA

PORTFOLIO

- Electronic Waste
- Recycling companies
- PCB Waste Trading
Companies
- PCB Producers

BUSINESS OVERVIEW

Kat Metal Estonia is an electronic waste recycling company. It's main business is buying and processing electronic waste that contain precious metals. The materials produced from processing will then be reused and recycled.

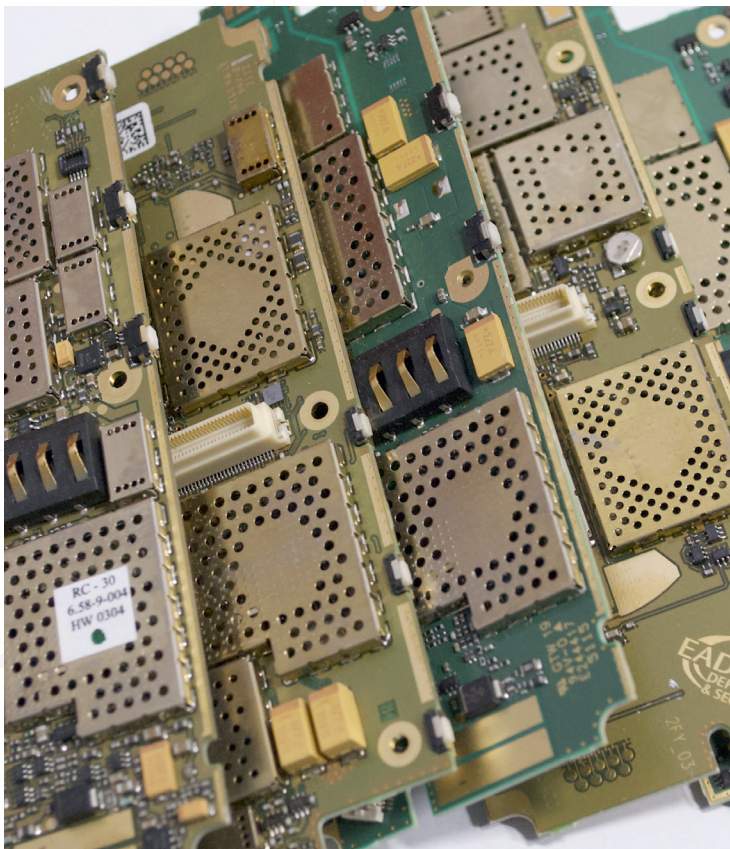
WE OFFER

- Purchase of electronic waste
- Consulting in electronic waste management
- Environmentally friendly recycling

**KAT METAL
ESTONIA OÜ**

Tallinn, Estonia
info@katmetal.ee

KATMETAL.EE



INDUSTRIES

- Smart city
- Micro-mobility
- Industrial-IoT
- UAV/UAS
- Autonomous vehicles
- Robotics
- Defence & Aerospace

BUSINESS OVERVIEW

Krakul is an Internet of Things, autonomous systems, and product development company, supporting you in all of your electronics-related projects, from idea to prototype to manufacturing. We help companies discover and engineer ground-breaking solutions that scale to meet both market and consumer demand. After completing over 100+ projects, the team has had a global influence, with projects in the Baltics, USA, Sweden, Mexico, Vietnam, Spain, and many other countries. As of 2022, Krakul is a part of Bercman Technologies, a company listed on Nasdaq First North.

WE OFFER

- High-reliability electronics, firmware, and mechanical design — we've designed electronics solutions for defence sector UAV/UASs (autopilots, communication modules, sensor modules, power & distribution boards).
- Ability to quickly prototype, reiterate, and test new designs and ideas.
- Systematic, process-driven, and transparent product development with and for our clients.
- Partnerships with high-reputation EMSs to manufacture electronics in proto, pilot, and mass-production series, and various other service providers to speed up time to market.
- Certification and regulatory compliance.

KRAKUL OÜ

Akadeemia tee
21/4 - 304, Tallinn, Estonia

info@krakul.eu
+372 5885 6921

KRAKUL.EU

Thread Systems



Valnes

Auve Tech



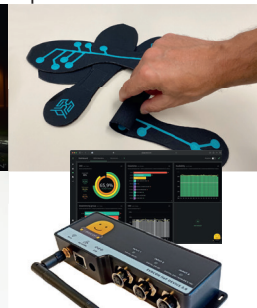
Bikeep

Bercman Technologies



CrystalSpace

Sportscientia



Evocon

Lainisalo Industrial Painting

LAINISALO®

CORE COMPETENCIES

- Powder Painting;
- Wet Painting solutions;
- Ceramic Coating;
- Viralsafe Coatings

BUSINESS SECTORS:

- Consumer
- Medicine
- Military
- Marine
- Civil engineering
- Automotive
- Electronics
- Robotics

BUSINESS OVERVIEW

Founded in 1990, Lainisalo is a leading subcontracting paint- and surface treatment shop specialising in large scale surface coating. Our customers' products can be found on all continents and conditions around the world and they represent almost all sectors you can think of; consumer, medicine, military, shipping, construction, automotive and electronics to name a few.

We have a modern wet paint shop at our disposal together with robotic painting system, and we also offer silk and tampo press services.

Our powder paint shop handles both large capacity automated painting as well as small paint jobs by hand.

ADDITIONAL SERVICES:

- Special Surface Treatments
- Expert Services and Product Development
- Logistics and Other Support Services

LAINISALO INDUSTRIAL PAINTING OÜ

Peterburi tee 66/70,
11415 Tallinn

sales@lainisalo.ee

WWW.LAINISALO.EE



Electronics when failure is not an option.

CERTIFICATES

- ISO 9001:2015
- ISO 14001:2015

BUSINESS OVERVIEW

Leab Eesti OÜ specializes in contract manufacturing of electronics for customers with high demands on quality, delivery performance and environmental durability. We specialize in manufacturing of products in mid-size to large series with high work content.

A large share of the electronics produced at our plant is designed to perform in extreme conditions, including moisture heat and vibrations.

WE OFFER

Industrialisation

- Project management
- Production adaption
- Preproduction preparations
- Prototype manufacture
- New product introduction (NPI)

Electronics manufacturing

- Material supplies
- X-rays and automated optical inspection (SPI/AOI/CMM)
- Function testing and in-circuit testing (ICT)
- Coating and moulding
- Final assembly of finished products (box build)

Distribution and service

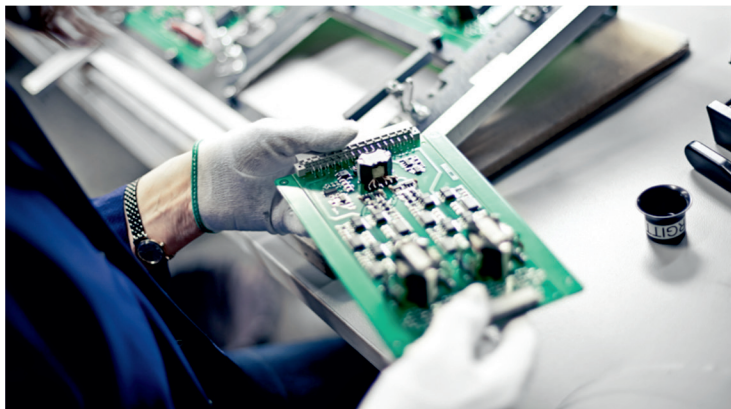
- Distribution and warehouse handling
- Distribution to customer's customers
- After market service

LEAB EESTI OÜ

Põikmäe 1
76406 Tännassilma,
Saku vald, Estonia

info.est@leab.se
+372 6503 200

LEAB.SE



Your business and supply chain booster!

One of the largest logistics companies in Estonia with key competencies in warehousing, customs clearance, e-commerce solutions and production support solutions.

AWARDS AND CERTIFICATES:

- Estonian Environmentally Friendly Enterprises Award
- ISO 9001:2015
- ISO 14001:2015
- AEOF certificate
- Regulated Agent

CLIENT PORTFOLIO:

- Electronics manufacturers,
- Medical supplies providers,
- Automotive industry manufacturers,
- Start-ups,
- Engineering industry companies.

LOGISTIKA PLUSS OÜ

Punane st. 73
13619 Tallinn, Estonia

info@logistikapluss.ee
+37259187600

LOGISTIKAPLUSS.COM

BUSINESS OVERVIEW

Logistika Pluss operates in the field of warehousing and production logistics.

Our staff of 160 people and space of 40,000 sqm A-class warehouses can provide solutions for any long term or urgent solutions.

WE OFFER:

Flexibility and resources to medium and large companies through value adding services, such as quality control, assembly, packaging, labelling etc. in addition to warehousing and customs formalities. Through strategic partnership we help our customers to be prepared and flexible for any logistical or manufacturing needs.



CORE COMPETENCIES:

**Solutions for
manufacturing industry
with more than 30 years
of experience.**

- Robotics
- Automation
- Standard & Custom component Feeders

CLIENT PORTFOLIO

- EMS and OEM industry globally.

PRODUCTS

- M-G HiFlex 1000 in-line/off-line
- M-G HiFlex 1500 in-line/off-line
- M-G 1000 BR, PCB Bottom Router
- M-G 1500 DSB, Dual Shuttle PCB Bottom Router & Saw
- Standard & Custom component Feeders
- M-G FA, Final Assembly Line

BUSINESS OVERVIEW

Mereo-Group design and manufacture robotics and automation equipment for electronics manufacturing industry End Of the Line (EOL) process. Our factory is located in Tallinn, Estonia.

WE OFFER:

Full solutions for processes after SMD line with our new HiFlex product family:

- | | |
|-----------------------|------------------|
| • Odd-Form pick&place | • Multi-Function |
| • Final assembly | • Packing |
| • Laser marking | |
| • Dispensing | |
| • Coating | |
| • Selective soldering | |
| • PCB depaneling | |
| • Screw insertion | |
| • Label placement | |

Component Feeders:

- Radial/Axial
- Metal strip
- Tray/Tube/Bowl
- Label
- Custom

MEREO-GROUP OÜ

MJ@mereo-group.com
+358 40 480 3060

MEREO-GROUP.COM



CORE COMPETENCIES

Electronics
Manufacturing
Services:

- Manufacturing and engineering services
- PCB assembly
- NPIs
- Box build
- After-sales
- Build-to-order
- Configure-to-order

CERTIFICATES

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- ISO 13485:2016

BUSINESS OVERVIEW

NOTE Pärnu is a business unit of NOTE Group, one of Northern Europe's leading contract manufacturing partners for electronics and complete products. Pärnu Factory has over 4000m² of ESD production area with 300 employees.

WE OFFER

NOTE Pärnu focus is on industrialization and cost efficient volume production of products with high quality demands. With high-mix of manufacturing solutions our offering covers everything from production technical services at an early stage to serial production and advanced after sales services.

OUR CORE VALUES

COMMITTED - We are solution oriented and create a simulating working environment, internally and for our customers, locally and globally.

PROACTIVE - We communicate early to do business in a way that is professional, transparent and fair.

QUALITY FOCUSED - "Get it right from the start". There is focus on the quality in everything we do.

FLEXIBLE - We are always looking for the most cost-efficient way to satisfy customer demand, adjusting setups as required.

NOTE PÄRNU OÜ

Laki 2
80010 Pärnu, Estonia

mart.ulm@note-ems.com
note-ems.com
+372 5199 3974

NOTE-EMS.COM



Oshino Electronics Estonia



OUR KEYWORDS

- PCB design
- Assembly
- Sourcing

CERTIFICATES

- ATF 16949:2016
- ISO 9001:2015
- ISO 14001:2015 compatible.

BUSINESS OVERVIEW

Oshino is family owned Japanese company. In Pärnu we opened the factory in 2005. Historical focus has been mostly on the automotive industry (interior illumination LED modules). Currently moving towards different industries — EV chargers and various consumer electronics

Oshino has 3,600 m² production space, currently 80 people. Oshino has been growing during couple of years approx 20% per year due to our investments and new customer segments.

WE OFFER

Our core businesses are PCB design, assembly both SMT and TH, sourcing, high level prototyping, test equipment design.

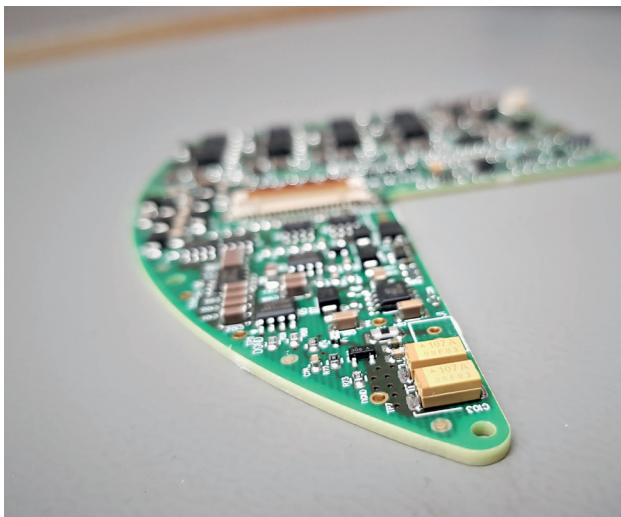
Almost 20 years automotive experience, EV chargers, illumination solutions

**OSHINO
ELECTRONICS
ESTONIA OÜ**

Jannseni 26
80010 Pärnu, Estonia

+372 524 1414
kulli.muur@oshino.ee

WWW.OSHINO.EE



CORE COMPETENCES

Manufacture of control devices for heating and ventilation equipment. The devices are mostly designed by Ouman.

- 170 employees
- SMD assembly
- Manual assembly
- Wave soldering
- Selective soldering
- Conformal coating
- AOI
- Test equipment
- Material procurement
- Logistics solutions

CERTIFICATES

- ISO 9001:2015
- ISO 14001:2015

CLIENT PORTFOLIO

Major HVAC companies in Finland, Scandinavia, Central Europe, Baltic states.

OUMAN ESTONIA OÜ

Kalevi põik 7
93815 Kuressaare,
Estonia

info@ouman.ee
+372 452 4405

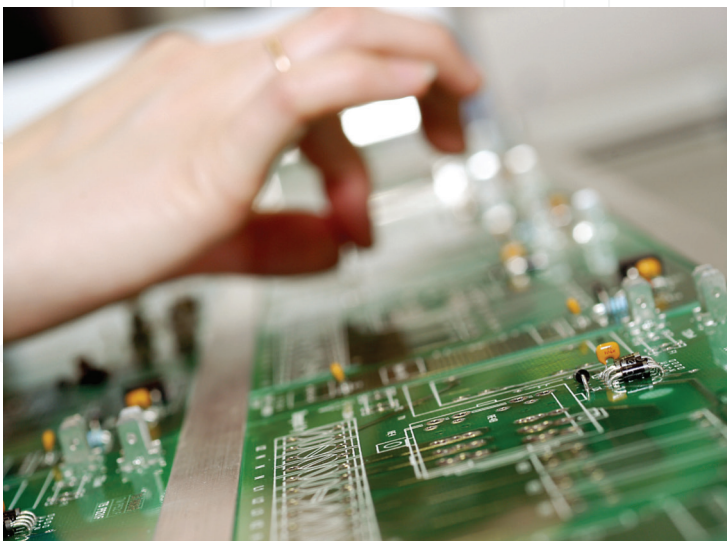
OUMAN.EE

BUSINESS OVERVIEW

The devices are mostly designed by Ouman. We are a company which manufactures electronic devices for heating and ventilation equipment. We cooperate with other companies inside Ouman group who have designed most of our products.

WE OFFER

design, implementation of new products, manufacture and development of test solutions for control devices of heating and ventilation equipment.



CORE COMPETENCIES

- Product development
- Engineering and prototyping
- PCB assemblies and Box-build
- Firmware and software development
- Extensive portfolio of Rantelon own COTS products
- Customized solutions

AWARDS:

2020 EDA Defence
Innovation Prize

CERTIFICATES

- ISO 9001
- ISO 14001
- AQAP 2110

CLIENT PORTFOLIO

- Industrial electronics
- Telecoms and network operators
- Military and Homeland Security

RANTELON OÜ

Põllu 132
10917 Tallinn, Estonia
info@rantelon.ee
+372 681 3650

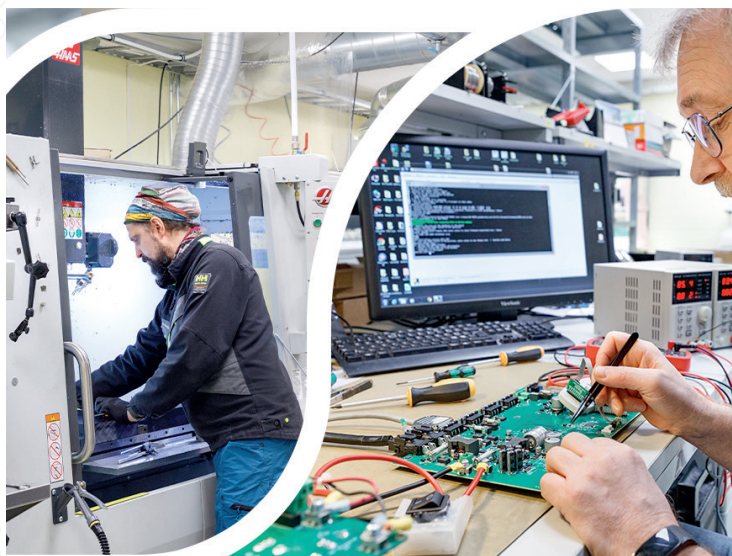
RANTELON.EE

BUSINESS OVERVIEW

Founded in 1995, Rantelon is a premiere supplier of radio frequency (RF) and microwave solutions for government, industrial, military and commercial customers. As a turn-key solutions provider, Rantelon can take an idea from concept stage through design and development, prototyping and to a final — small to medium scale production in a swift and cost-effective manner.

WE OFFER

Rantelon provides quick-tempo design and engineering services that address the most demanding customer requirements, especially with regard to high-performance, power reduction, compact design, demanding environment and cost-effective solutions. Rantelon provides a large selection of microwave amplifiers, antennas, filters, LTE, GSM, UMTS, TETRA, Wi-Fi, SDR, FPGA products and designs



**PARTNERSHIP IS THE KEY TO SUCCESS
WITH 30 YEARS EXPERIENCE.**

OUR SERVICES AND PRODUCTS INCL

- Harnesses, spiral cables & equipment cables
- Electromechanical assembly
- Sensor assembly
- Insert & injection molding
- Power & connection cords
- Design & product development

CERTIFICATES

- ISO 9001
- ISO 14001
- OHSAS 18001
- UL
- CSA
- IPC/WHMA-A-620
- FI, S & N

CLIENT PORTFOLIO

- Manufacturing industry
- Military industry

REIMAX ELECTRONICS OÜ

Mäealuse 6
12618 Tallinn, Estonia

aare.kaljurand@
reimax.net
+372 66 51 641

REIMAX.NET

BUSINESS OVERVIEW

Reimax is a full-service house for electronics and mechanics. We are certified to manufacture products for extreme conditions when water-, dust-, chemical-, or weather conditions set the requirements.

WE OFFER

Quality and delivery reliability, 100% testing, automated production methods, also low volume high mix range, flexibility, early supplier involvement, wide expertise. UL & CSA approved production, personal quality certificate IPC620

Armed with decades of experience, Reimax Electronics offers tailored solutions in electronics and mechanics, as well as injection moulding technology to cater for the needs of various industries. Owing to our extensive know-how we are a unique company in our field, because we are capable of offering customers everything they need in a flexible manner — all the way from designing up to the final assembly.

Our constantly improving production practices, and the high level of quality we offer, make us a valued partner for our customer. By contributing into quality and taking care of our environment, we will continue to be a reliable and dependable option for years to come. Please tell us about your "electronic" challenges, and let us solve them for you.

Our versatile machinery for wire and cable processing is modern and allows us to produce fast and cost-effectively. For demanding conditions, we also manufacture injection moulds and cable overmoulds. In our production we contribute a lot in quality. All our products are 100% tested.

Our production is mostly driven by customer specifications, but we do follow IPC standards and we have implemented ISO 9001, ISO14001 and OHSAS18001 standards in our company. We have UL- & CSA approved production and our products are FI, S and N certified.

CORE COMPETENCIES

- Hardware Engineering: electronics design and prototyping
- Internet of Things
- Software
- Development: Android and iOS apps, custom software, embedded software
- Computer Vision: industrial processes automation, objects counting, objects identification, quality control

CLIENT PORTFOLIO

- ABB
- Lemminkäinen
- Bellus
- Proscreen
- Nordic Shelter
- Widex

SP ENGINEERS OÜ

Tööstuse 47A-39, 10416
Tallinn, Estonia

info@spengineers.eu
+372 516 9995
+372 526 4992

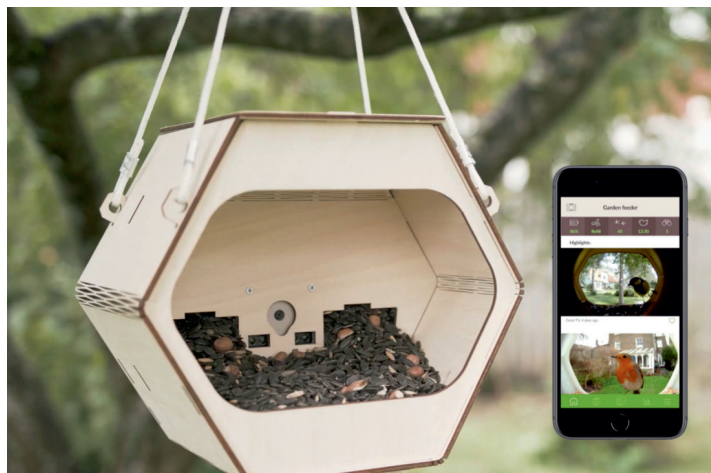
SPENGINEERS.EU

BUSINESS OVERVIEW

SP Engineers/ Skeemipesa offers Internet of Things (IoT), electronics and software products development services since 2014. We create industry automation and quality control solutions. We analyze thoroughly your concept and choose the most suitable technologies to create a reliable and user-friendly product.

WE OFFER

- IoT devices development: can be used to collect and share any type of data; battery, solar or mains powered; work in most harsh and demanding environments; experience on measuring, controlling, tracking and smart farming field,
- Software products development: iOS and Android apps, single-page dynamic web applications, web-based administration interfaces, analytics dashboards, integrations between various systems,
- Electronics devices development: consumer electronic devices; industrial testing, control and measurement devices; portable devices; touchscreen, mobile app and server-based control options; experience on industrial testing, healthcare and consumer electronics field



Stoneridge Electronics



CUSTOMERS

- DAF
- Daimler
- MAN
- Renault
- Scania
- Volvo
- Ford

PRODUCT PORTFOLIO

- Instrument Clusters
- Display Systems
- Graphic Controllers
- Telematic On-board Units
- Advanced Body & Cab ECUs
- Power Distribution ECUs
- Actuator & Sensor Electronics
- Digital Tachographs
- Tools & Support Systems
- Electronic Logging Devices
- Camera and Monitor Systems
- Mirror Replacement Systems
- Image Recognition Systems

CERTIFICATES

- IATF 16949
- ISO 14001
- ISO 45001

STONERIDGE ELECTRONICS AS

Valdmäe 5, Tännassilma
Tehnopark, Laagri alevik,
Saku vald, Harjumaa
tallinn@stoneridge.com
+372 669 4080

STONERIDGE.COM

BUSINESS OVERVIEW

Stoneridge Electronics Inc. is a leading supplier to the automotive, truck, bus and off-road markets. We are proud to develop and supply products and systems to the majority of the most well-known European Vehicle producers like V3P (Volvo Group), Scania, Daimler, MAN, Ford. We are well established in Europe and being a part of the Stoneridge Group enables us to work with customers worldwide. Stoneridge Inc. has about 4500 employees worldwide and has a turnover of approximately 700 million USD.

WE OFFER

Our products range from Telematic systems, driver information systems, and tachographs through electronic control modules and power distribution centres to multiplex systems, cockpit switch modules and aftermarket products.

COMPETENCIES

- Embedded Software Design and Verification
- Hardware Design
- Mechanical Design
- Product Testing and Validation
- Industrialisation
- Pre- and Final assembly
- Testing
- Manufacturing Engineering
- Quality Control
- Logistics
- Procurement, Finance Services



**Innovative and easy to
deploy Narrowband-
IoT solutions**

CORE COMPETENCIES

- IoT
- Narrowband-IoT
- Industry 4.0
- Smart City
- Special sensors
- Software

BUSINESS OVERVIEW

Superhands core competences help our partners and customers to provide innovative products mainly to healthtech, agriculture and energy sector. Additionally using our sensor, software and analytics technologies, cities and industries can optimize their business processes, use preventive maintenance and increase efficiency.

WE OFFER

- Environment monitoring solutions and sensors,
- Full Internet of Things solutions starting from smart devices to IoT platforms and mobile applications,
- Smart factory solutions - preventive maintenance, people and asset tracking, energy and utilities monitoring,
- Medical device, sensor and software development,
- Special sensors and software development including mobile applications

SUPERSPOT

Easy-to-deploy and install reliable connected devices for agriculture, forestry, security, manufacturing, energy and climate monitoring.

SUPERHANDS OÜ

Artelli 19
10621 Tallinn, Estonia

info@superhands.ee
+372 517 9277

SUPERHANDS.EE



Tallinn Polytechnic School



COMPETENCIES:

- Training
- Certification
- Consultation

CERTIFICATES:

- IPC-A-610
- IPC-A-600
- IPC/WHMA-A-620
- IPC-7711/21
- IPC-J-STD-001

CERTIFICATION FOR:

- Expert
- Instructor
- Specialist



**TALLINN
POLYTECHNIC
SCHOOL**

Pärnu mnt. 57
10135 Tallinn, Estonia

info@tptlive.ee
+372 610 3601

TPTLIVE.EE

BUSINESS OVERVIEW

Tallinn Polytechnic School is one of the oldest engineering and technical education provider in Estonia founded in 1915. With more than 100 years of combined experience in the fields of electrical engineering, automation, telecommunication, electronics and information technology, Tallinn Polytechnic School has become a fully authorized and internationally recognized IPC Training Center which supports the electronics industry across the region.

WE OFFER

Tallinn Polytechnic School offers IPC training and certification classes to professionals and companies in different formats like classroom training, e-training and combined options. IPC training and certification programs are industry-developed and approved to assure understanding of IPC criteria in the industry's most popular IPC documents. All IPC training programs lead to an industry traceable IPC certification for the instructors, standards experts, specialists or operators.

Tallinn Polytechnic School offers training and certification for five the most widely used IPC standards:

- IPC-A-610, Acceptability of Electronic Assemblies
- IPC-A-600, Acceptability of Printed Boards
- IPC/WHMA-A-620, Requirements and Acceptance for Cable and Wire Harness Assemblies
- IPC J-STD-001, Requirements for Soldered Electrical and Electronic Assemblies (including Space Addendum requirements)
- IPC-7711/IPC-7721, Rework of Electronic Assemblies/ Repair and Modification of Printed Boards and Electronic Assemblies



CORE COMPETENCIES

- Programming and spoken human language technology
- Design and test of embedded systems
- Signal processing
- Biorobotics
- Biomedical technology
- Cyber security and digital forensics
- E-governance
- Situational awareness
- Agent-based modelling
- System administration and development
- Information systems analysis

TALLINN UNIVERSITY OF TECHNOLOGY

Ehitajate tee 5
19086 Tallinn, Estonia

Gert Jervan

Dean of the School of IT
Gert.Jervan@taltech.ee

Sirli Kasepuu

Business Development
Coordinator
sirli.kasepuu@taltech.ee
+372 620 2270

TALTECH.EE

BUSINESS OVERVIEW

Tallinn University of Technology (TalTech), the only technological university in Estonia, is the core of Estonian engineering and technology education. Here the synergy between different fields (ICT, technology, natural and social sciences) is created and new ideas are born.

TalTech is driven by internationalization, entrepreneurship and innovation. With over 10,000 students and 1800 academic staff members, TalTech is an internationally recognized research university and a promoter of economic development and innovation in Estonia and globally. The University's approximately 70,000 alumni have shaped the economic landscape of present-day Estonia.

RESEARCH AND INNOVATION

We have initiated opportunities to use university's campus for developing smart environment through different scenarios how sensors, devices and communication technologies could be integrated into the smart city concept. For example, how last mile autonomous vehicles interact with humans, how do vehicles „talk“ to each other and with the infrastructure etc.

At the moment, it is possible to test-use 5G, NB-IoT and LTE Cat-M1 radio networks in cooperation with Telia and Ericsson at the TalTech campus. In parallel with testing the communication use cases, Laboratory of Proactive Technologies is developing smart sensor solutions. The evolving smart TalTech campus will include autonomous vehicles (drones, buses, cars), robots, intelligent security systems, intelligent street lights or crossings.

The data collected by intelligent electronics and sensor networks can be utilized for traffic management, monitoring of air pollution and noise level, optimization of street lighting power consumption, etc.

TalTech's ICT research groups have analyzed, how wearable robots can assist or substitute human motor function or how underwater robots could track oil spill in the ocean. We are also involved in R&D about the energy efficient wearable sensors for healthcare/lifestyle applications and robot companions of the future.

CORE COMPETENCIES

- Embedded devices
- Software development
- Electronics
- Mechanics
- Physics
- Product management

PRODUCTS

Handheld controller kit
Impeller anemometer
Airflow tunnel

BUSINESS OVERVIEW

Tauria is an engineering office of embedded systems established in 2010. We can handle every aspect needed for embedded device development: physics, electronics, mathematics, mechanics, software development and agile international project management.

WE OFFER

- Technology evaluation for new solution.
- Embedded software development.
- Electronics and mechanical design.
- Embedded product development and supply.

TAURIA OÜ

tauria@tauria.eu
+372 55 611 689

TAURIA.EU



CORE COMPETENCIES

- Automated production fixtures
- Manual production jigs
- Design and production of Printed Circuit Board assembly tooling

BUSINESS OVERVIEW

Teamster is geared for flexibility. Over the 15 years we have built up technical expertise which is unique in its field, and today we are the Estonian leading manufacturer of assembly tooling.

With the resources and know-how for sophisticated projects and new challenges. Teamster lives up to the requirements of the market for quality and reliable delivery.

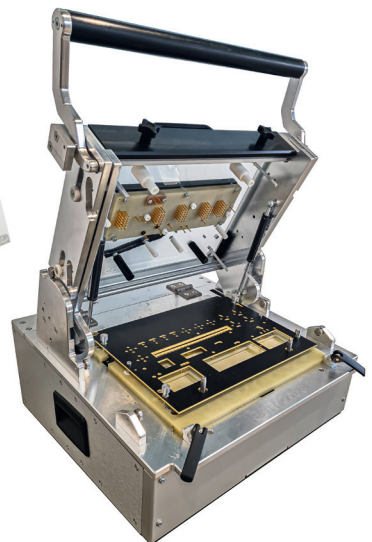
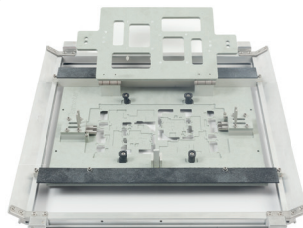
WE OFFER

Company Teamster from Estonia would like to offer you cost-efficient and fast solutions for the design and production of

- automated production fixtures
- manual production jigs
- PCB assembly tooling

MANUAL TESTER

Manual test platform for smaller series manufacturing with short preparation time. Interchangeable test modules are easily replaceable, no extra tools needed. All test platforms are easily customizable according to customer demands. Testing from one or both sides of PCB.



TEAMSTER OÜ

Tapri 9
11415 Tallinn, Estonia

teamster@teamster.ee
+372 534 44423

WWW.TEAMSTER.EE

KEY FACTS

- 14+ years of experience
- 18+ countries
- 120+ clients
- 200+ projects

SECTORS

- Consumer electronics
- Gaming equipment
- Smart home products
- Robots for consumer and professional use
- IoT devices
- Rugged devices
- Medical devices
- Equipment for defense / military

CERTIFICATES

- ISO 9001:2015

TEN TWELVE OÜ

Vabaõhumuuseumi tee
1-201, 13522 Tallinn, Estonia

tarmo@tentwelve.ee
+372 539 78627

TENTWELVE.EE

BUSINESS OVERVIEW

Ten Twelve is an interdisciplinary product development company specializing in industrial design, mechanical engineering, and mechatronics. Our expertise in these fields, along with a strong background in DFMA and engineering support for production, enables us to deliver desirable, reliable, and cost-effective products. We streamline the development process from concept to commercialization, enhancing schedules and finances.

Our focus is on user-centric technology devices for serial production, encompassing consumer electronics, robotics, medical devices, and defense solutions. Our portfolio includes groundbreaking projects such as the world's smallest general-purpose computer, widespread thermostat installations, border surveillance sensors in 30 countries, and medical devices for renowned brands. We also offer support to startups in their global expansion efforts and assist large corporations in identifying innovation opportunities.

WE OFFER

- Schedule optimization and budgeting
- Industrial design for enhanced appeal and user experience
- Mechanical engineering for functionality and reliability
- Prototyping for user validation and functionality assessment
- DFMA for cost-efficiency and quality enhancement
- Efficient tooling, part, component, test setup, and assembly
- Supply chain development
- Cost and schedule-driven production
- Compliance testing and approvals
- Realization and logistics management



**WE HELP CUSTOMERS SCREENING DEFECTS TO
CATCH THEM EARLY.**

KEY FACTS

- 15+ year of innovation
- Patented technology
- Users in 23+ countries

COMPETENCIES

- FPGA
- VHDL
- Verilog
- Test & Measurement
- Functional Test
- Embedded Instrumentation
- JTAG
- Boundary Scan
- Flying Probe Test
- IJTAG
- IEEE 1687
- IEEE 1149
- Fault Tolerance
- Fault Management
- Service & Maintenance

BUSINESS OVERVIEW

We have a deep and almost unbearable passion towards three things: FPGAs, testing and innovation. As a result, Testonica invented and brought in 2011 to market Embedded Virtual Instrumentation technology. Later, we started to build the industry's first instrument synthesis cloud. Today, thanks to 15 years of industrial experience with hundreds of solutions delivered worldwide, we possess a huge in-house library of test & measurement instrumentation IPs forming a solid basis for a fully automated test system. As the result, we are bearing the full responsibility for the test solution quality on our shoulders.

WE OFFER

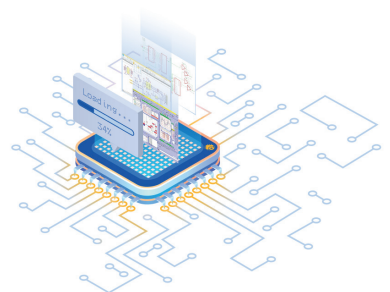
- Functional Test firmware and SW development
- JTAG / Boundary Scan test program development
- Test program development for Flying Probe Testers
- Testability improvement and test cost reduction
- Test strategy optimization

TESTONICA LAB OÜ

Akadeemia tee 15A
12618 Tallinn, Estonia

info@testonica.com
+372 5333 2551

TESTONICA.COM



CORE COMPETENCIES

Tim-Nordic is an expert in production technology. Our specialists help the customer to find the right products and solutions to meet their needs.

CLIENT PORTFOLIO

Electronics industry in the Baltic States, Finland and Sweden.

BUSINESS OVERVIEW

Tim-Nordic is a private company founded in 2009. We provide a wide range of production materials and equipment for electronics production.

Our product portfolio consist of numerous world class suppliers and Tim-Nordic is eg. the exclusive distributor in Estonia and Finland for Zestron cleaning chemicals. We have offices in Tallinn, Estonia and Jorvas, Finland.

WE OFFER

Solutions for the electronic industry.

TIM-NORDIC OY

Akadeemia tee 33
12618 Tallinn, Estonia

sales@timnordic.fi
+372 509 8153

TIMNORDIC.FI



CORE COMPETENCIES

- PCB assembly
- SMD
- THT
- Reflow soldering
- Wave soldering
- AOI
- Testing
- Final assembly
- Packaging
- Powder Coating
- Production of LED illuminated advertising letters

CERTIFICATES:

- ISO 9001:2015
- ISO 14001:2015

BUSINESS OVERVIEW

Electronics Manufacturing Services

WE OFFER

- Electronic components and materials management and procurement
- PCB assembly. Including: SMD components pick and place. Soldering of SMD components using reflow oven and wave soldering machine in nitrogen atmosphere. Automated optical inspection (AOI) of SMD components. Manual placing and wave soldering in nitrogen atmosphere of THT components. PCB protective coating. Electrical testing and setup of assembled PCBs according to client instructions
- Assembly and packaging of the final product
- Fabrication of cable and wire and mounting them on PCBs and devices
- Assembly and packaging of electrical accessories
- Production of LED illuminated advertising letters

Additional and ancillary activities:

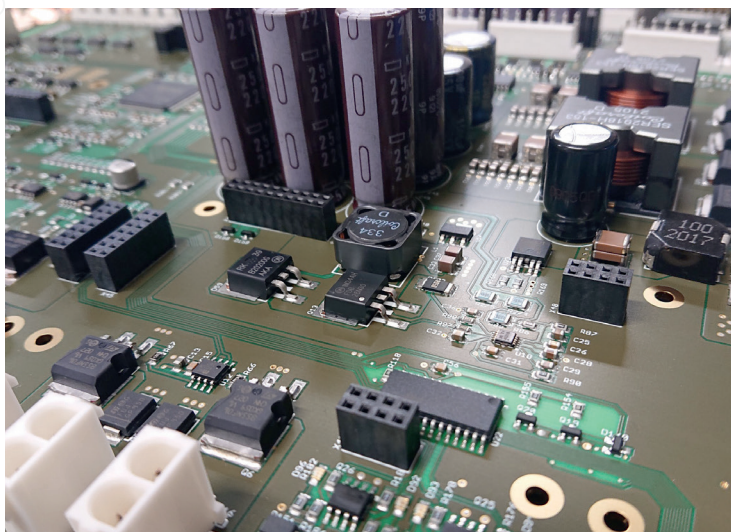
- Powder Coating

TRADEX AS

Lähtru tee 25e
90802 Palivere,
Lääne-Nigula parish,
Läänemaa county,
Estonia

tradex@tradex.ee
+372 472 0470

TRADEX.EE



CORE COMPETENCIES

Robotics, mechatronics, automation, electronics, IT, computer engineering, multiscale modelling, feasibility studies, project management and product development, prototyping, materials science

PROJECTS AND PRODUCTS

- Open source robot Robotont.ut.ee;
- Solar Powered Car Solaride.ee;
- AI & Robotics Estonia aire-edih.eu;
- Humanoid robot project Semubot.ee;
- Autonomous spectroradiometer system for satellite validation hypstar.eu

KEY FACTS

- Over 14000 students;
- Over 3300 employees;
- Over 3500 scientific publications in 2022.

UNIVERSITY OF TARTU

Ülikooli 18 50090 Tartu
Estonia

Ülle Jagomägi

Head of Business Relations
ulle.jagomagi@ut.ee

WWW.UT.EE

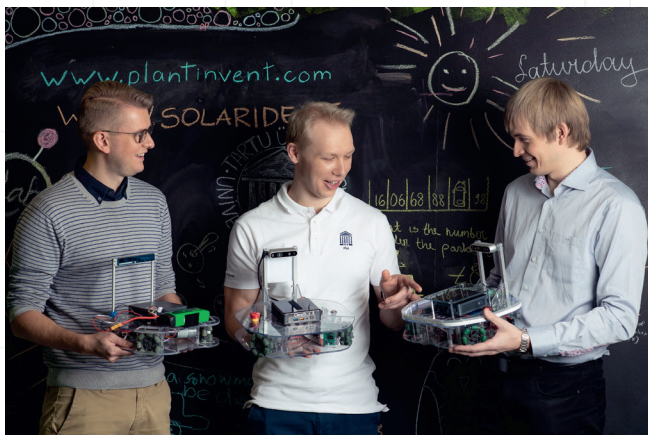
OVERVIEW

UT is Estonian leading centre of research and education since 1632. We are strong research university and we do operate at all levels of higher education. We are both national and international university.

WE OFFER

We offer higher education, continuing education, research and development support. Our primal areas are robotics and soft robotics, automation, IT, mechatronics, electronics, computer engineering, space technology, smart buildings and environment, self-driving vehicles, but also fashion industry, etc. We can provide full product development cycle starting from applied research, prototype development and finishing with setting up a subcontracted production line.

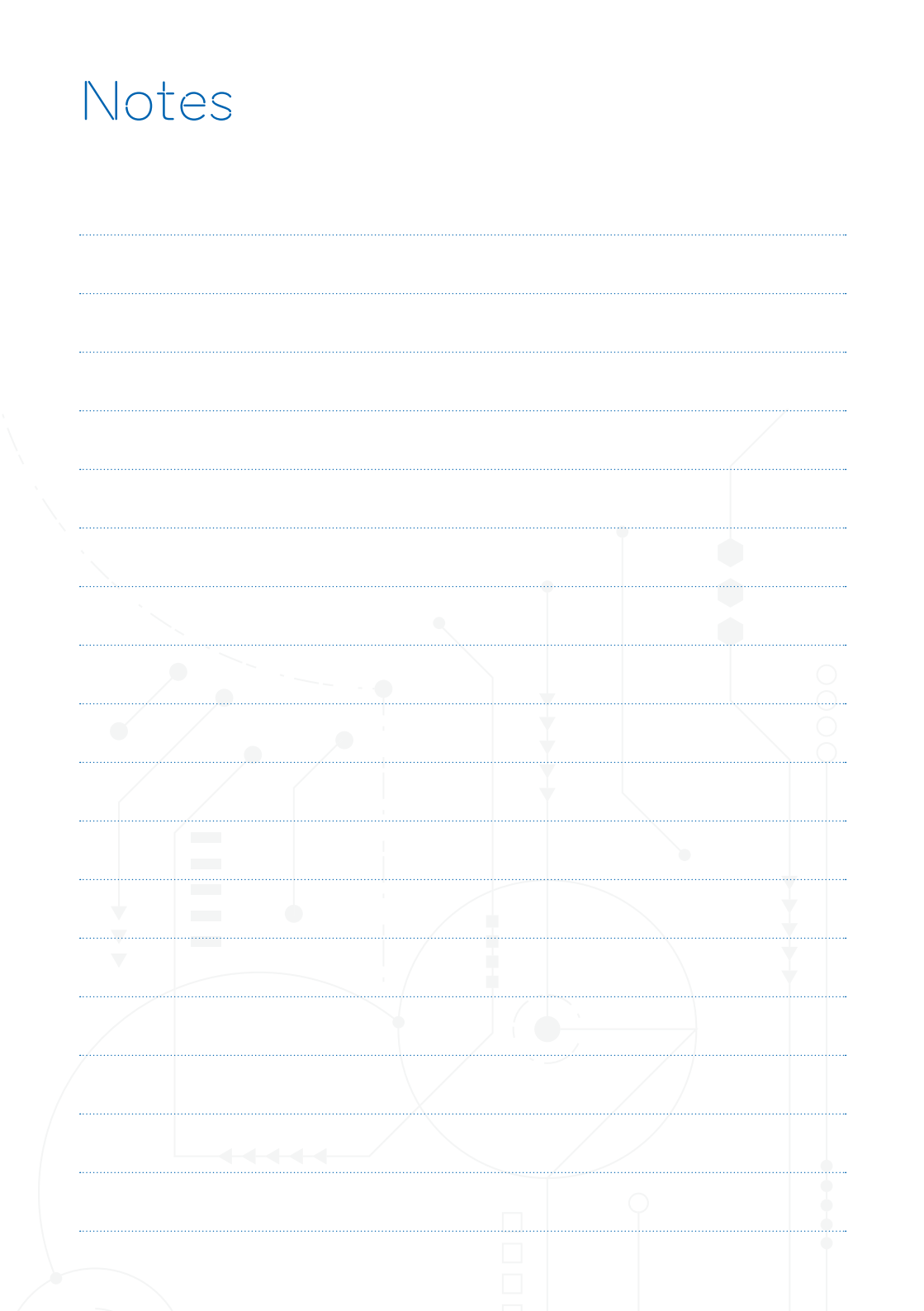
Together with developing your product we can train your employees to master in the development cycle. Within different forms of continuing education, incl. micro-credential programmes, it is possible to take courses on electronics engineering, robotics, IT, materials science, economy, etc.



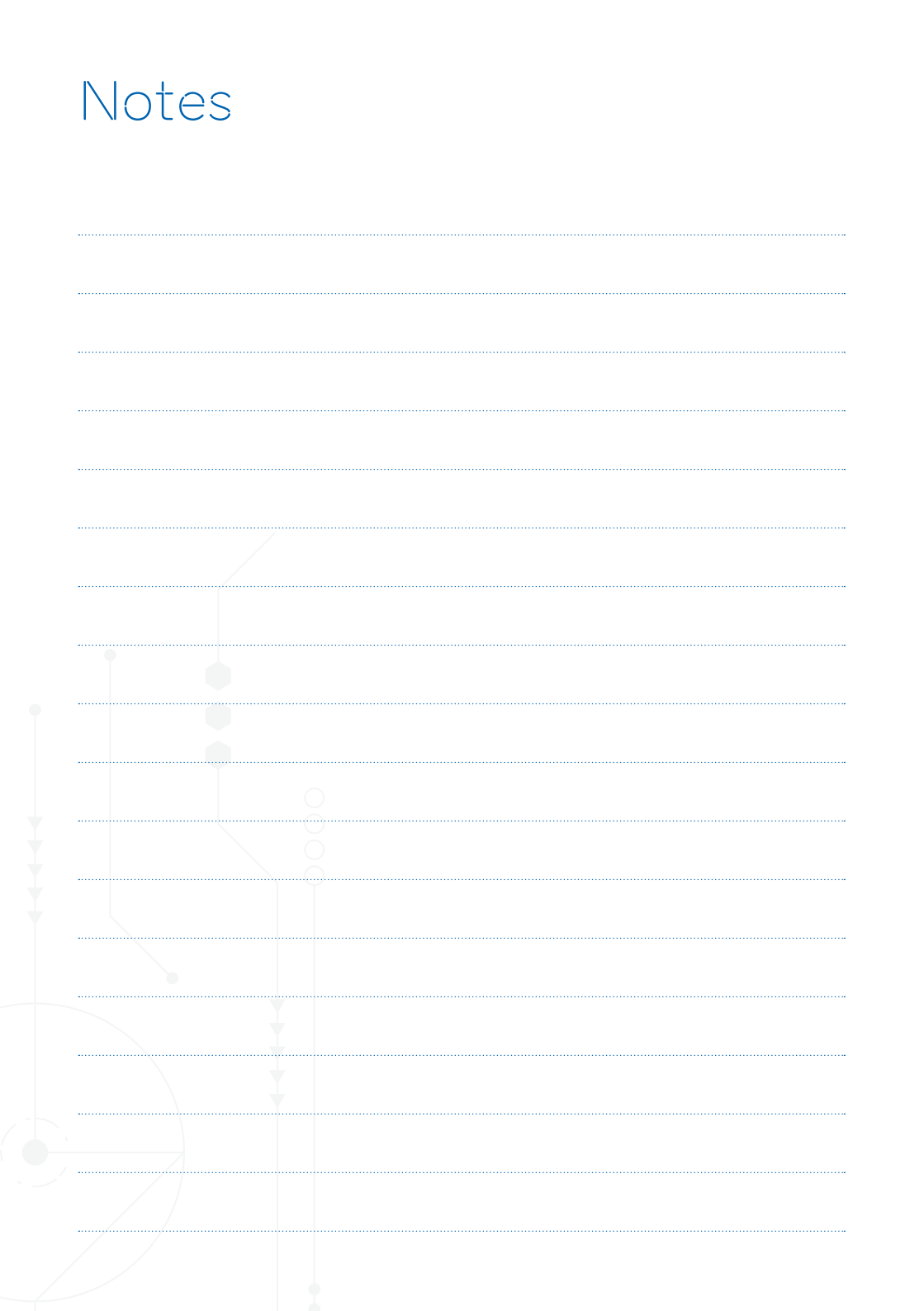
Notes



Notes

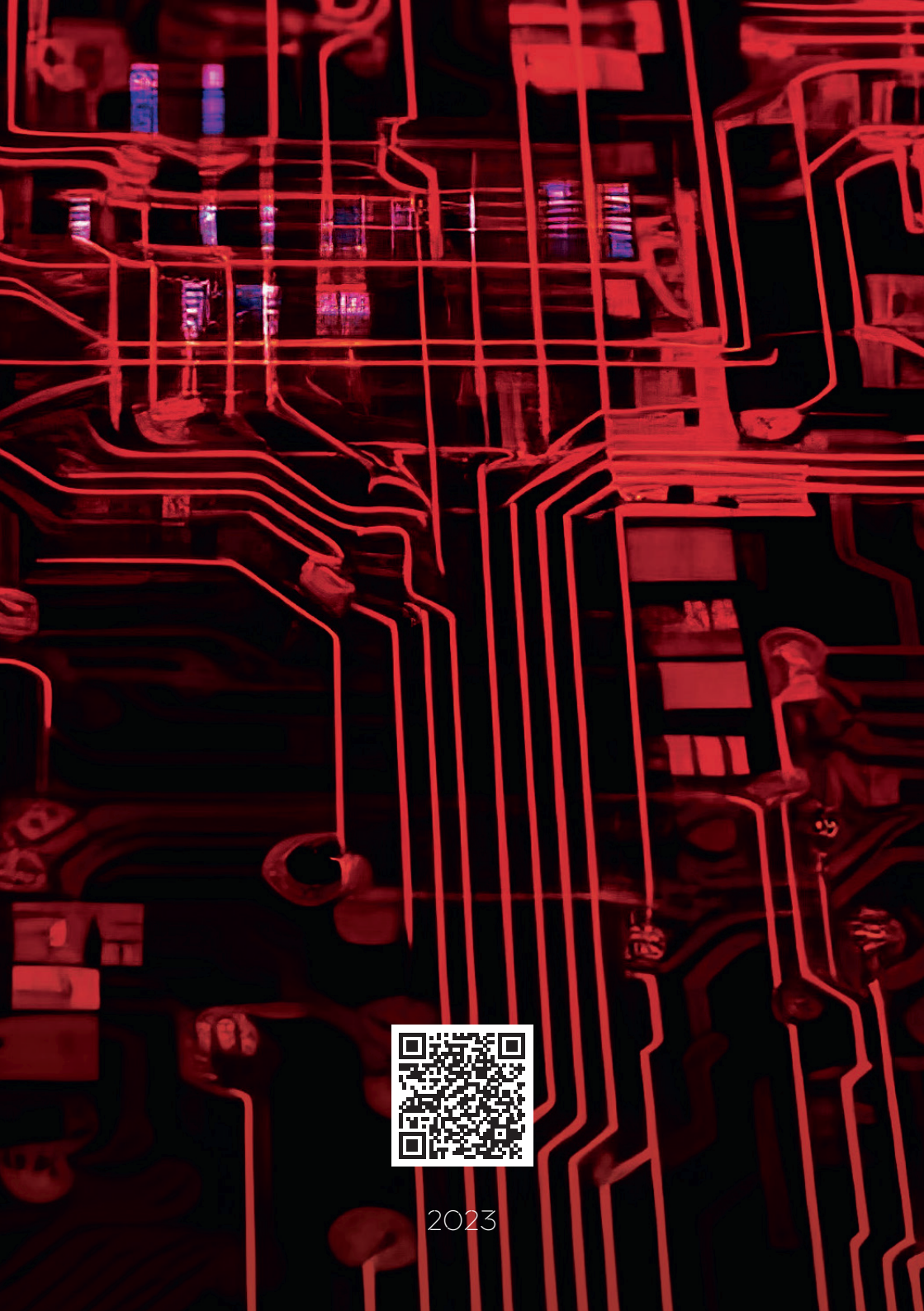


Notes





Estonian Electronics Industry
Nordic. Efficient. Innovative.



2023