

 TACHOSAFE OPTIMOO SVT SVTECH TSENSE

SVT ELECTRONICS

We're SVT Electronics, an IT & electronics company from Romania with a 15-year history. SVT is a locally owned company with nearly 30 employees, from the heart of Transylvania, from Targu Mures.

In the last 15 years we've developed our own products and services portfolio. We've decided to take an adventure in outsource system development. We've set up an experienced project team able to handle full projects from electronic schematics to cloud based service development.

Outsource Software and Hardware development

We are looking for relatively short projects with hardware development (IoT) and web components.

We have the ability to provide every phase from the software development to hardware design and to firmware programming including the transfer to manufacturing.

This has been proven by our products and cloud based services being used by thousands of customers in several countries (as you can see below).

Our story

It's been almost 15 years since 5 young guys, all five engineers and lovers of electronics and IT, got together. They are passionate about innovation and IT development. Driven by this inner creative force, they put plans on paper, which turned into hardware and software development, their own services and their own products, which are manufactured in-house. These products are now available on the Romanian and European markets. Our most important products include access control systems and time & attendance systems, digital tachograph data management solutions and various sensor systems.

Our passion is still to face hard challenges and to solve all types of problems with digital methods. We would like to offer real solutions to real problems.

Our strengths

- reliable knowledge
- experience
- development resources
- there is no “impossible” for us in solving technical problems
- agility of a small team

We can always come up with a quick and original solution for testing or to prove an idea.

Not only off the shelf development but creative problem solving methods.

Our experiences, technologies and skills

Hardware

We can design hardware equipment from the original idea to a prototype ready for series production. We have experience in the following fields:

Schematics & PCB: KiCad, OrCad

- Prototype
- O-series
- Transfer to production
- Molding tool design for equipment housing
- ICT tester
- Functional test documentation
- EMC testing

Communication interfaces:

- M2M: GPRS, 3G, 4G
- LoRaWan
- WiFi, Bluetooth (BLE), CAN
- TCP/IP
- All kind of communication protocols on UART (RS232/485): Modbus, ProfiBus

Other technologies:

- Sensors: IR Temperature, Etilo



Software

Our experiences, technologies and skills

Software

We can design databases, web apps, cloud services, desktop applications, cross platforms.

FRONT END

- React
- Angular
- Vue.js
- Bootstrap
- jQuery

BACK END

- Java Spring
- Node.js
- PHP: Laravel, CodeIgniter
- C#, C/C++

DESKTOP

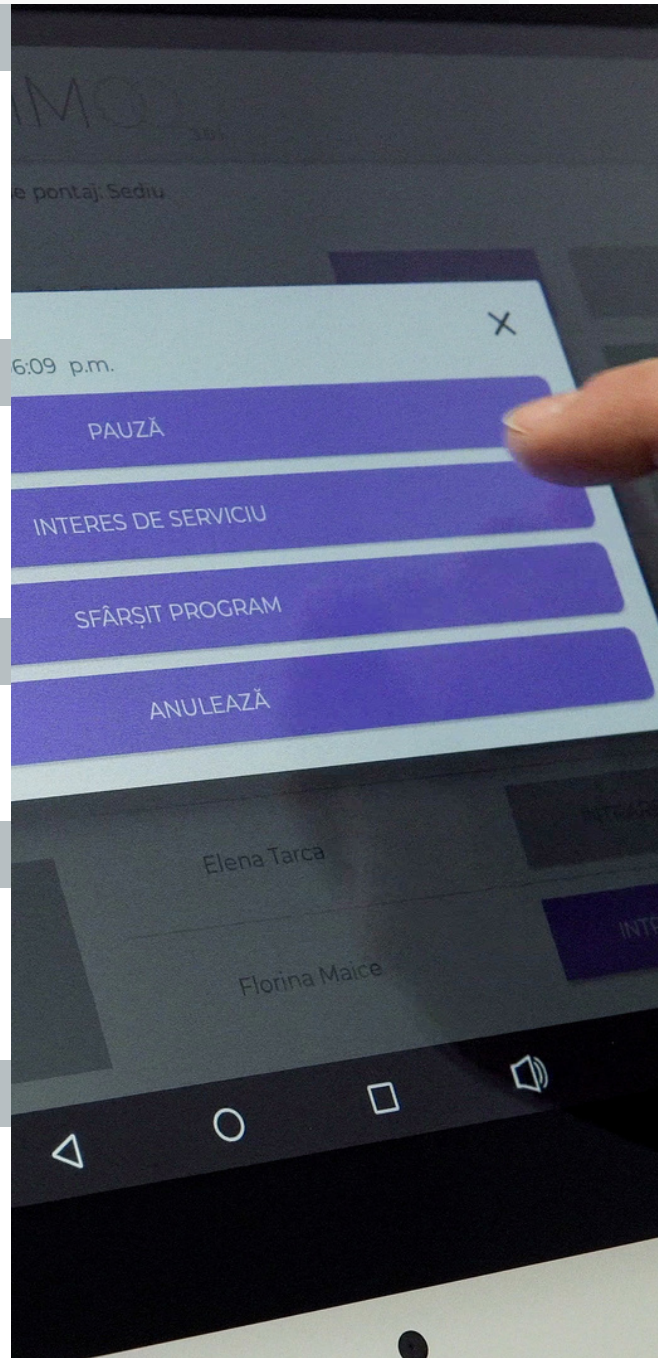
- Electron.js
- wxWidgets

MOBILE

- Cordova
- Capacitor
- Ionic

DATABASES

- MySQL
- SQLite
- MSSql
- Mongo DB



References - our own products and software solutions



TachoSafe is a complete digital tachograph data management solution used in Transport & Logistics. It consists of downloading equipment and cloud based data analysis and storage service.

Hardware



Tacho2Safe digital tachograph download tool

Produced and sold in over 70.000 pcs in 10 years.



RDU GPRS 2 remote digital tachograph download equipment with CAN and GPRS interface

Produced and sold in over 15.000 pcs in 6 years.

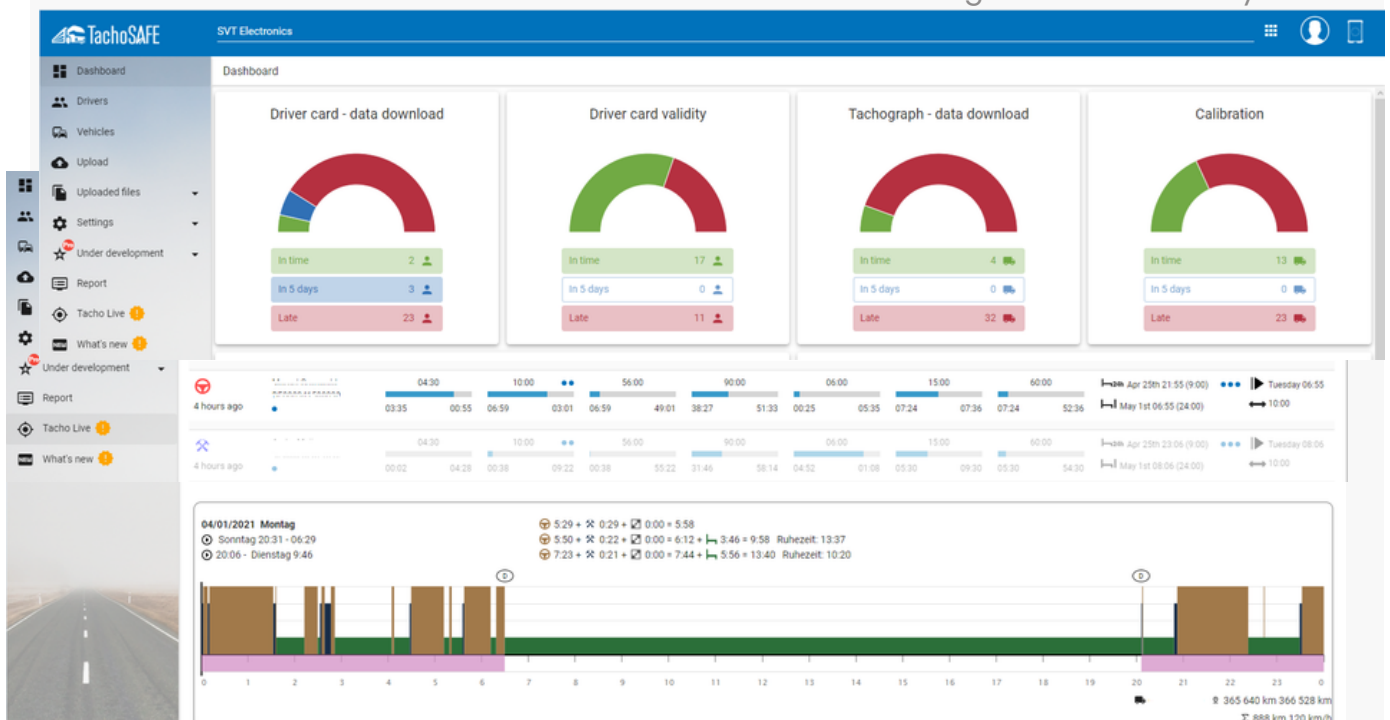


Tacho4Safe digital tachograph download tool with 4G interface

Pre production phase 500 pcs.

Software

TachoSafe WEB - Cloud based tacho data management and analysis service



Front End: Angular

Database: MariaDB, Hibernate, Jdbc

BackEnd: Java Spring

Cache: Redis



SVTech offers complete solutions of access control systems and timekeeping systems for any commercial, retail, public or business environment. These access management solutions allow monitoring and improving of employee and visitor management.

Hardware



Finger FOB Fingerprint RFID contactless card

Prototyping phase



X-Stal and X-Stal aux – 125 KHz Access control terminal with TCP/IP interface

11.000 units manufactured and sold in the last 7 years



FPSwitch – Fingerprint and RFID access control terminal with TCP/IP interface

Produced and sold in over 1200 pcs in 5 years

Software

SVT Pass WEB – Access Control, Time&Attendance software

The screenshot displays the SVT Pass WEB software interface. The top navigation bar includes links for Calendar, Leaves, Vacations, Delegation, Reports, Employee, and Technical support. The main content area is divided into three sections: Reports, Delegations, and Terminals. The Reports section shows a table of report history with columns for Document, Generated on, From, Until, Access point, Group of employees, and Employee. The Delegations section shows a table of delegation records with columns for Document, User, Date, and Hours. The Terminals section shows a list of access terminals with their status (ONLINE/OFFLINE) and details like IP address and MAC address.

Document	Generated on	From	Until	Access point	Group of employees	Employee
224	2022-04-25	2022-03-01	2022-03-31	Bejarat	SVTest	
223	2022-04-25	2022-03-01	2022-03-31	Bejarat	NO GROUP	
222	2022-04-25	2022-03-01	2022-03-31	Bejarat	SVT Iroda	
221	2022-04-25	2022-03-01	2022-03-31	Bejarat	SVT	
220	2017-08-28	2017-08-01	2017-08-31	Bejarat	SVT	
217	2016-11-15	2016-10-01	2016-10-31	Bejarat	SVT	
216	2016-10-26	2016-10-01	2016-10-26	Bejarat	SVT	
215	2016-10-26	2016-10-24	2016-10-26	Bejarat	SVT	

Document	User	Date	Hours
54	Szaz Szabolcs Istvan	2015-10-28	8
53	Morar Berta	2015-10-28	8
52	Szaz Szabolcs Istvan	2015-10-05	8
51	Szaz Szabolcs Istvan	2015-09-24	8
50	Tekse Arpad	2015-09-24	8

Terminal	Status	IP	MAC
APARTMAN	ONLINE	192.168.0.44.80	54-10-EC-8E-43-E2
HATSO BEJARAT	ONLINE	192.168.0.42.80	54-10-EC-8E-43-E2

installed to more than 1 000 companies

Front End: JavaScript

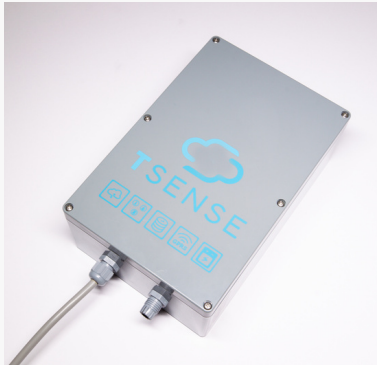
Database: MariaDB

BackEnd: PHP Codeigniter, Java



TSense is a real time temperature, humidity and gas remote monitoring system for refrigerators, industrial cooling rooms, suited for the food industry, agriculture and other different industries where keeping a steady temperature is essential. The reporting Sensors for door opening and alert notifications via SMS/e-mail/sound are part of the system.

Hardware



TSense Sentinel

Data collection station which transmits data collected from sensors to a web-based application.

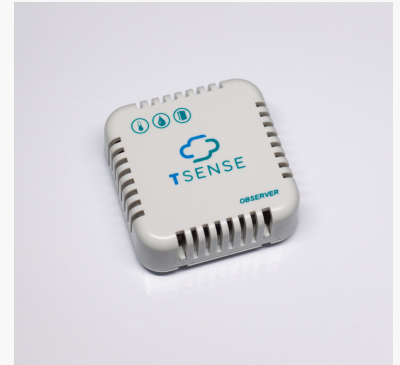
Produced and sold in over 120 pcs in 2 years.



TSense Node

Cable sensor for temperature/humidity/gas, 32 sensors can be linked in a string.

Produced and sold in over 100 pcs in 2 years.

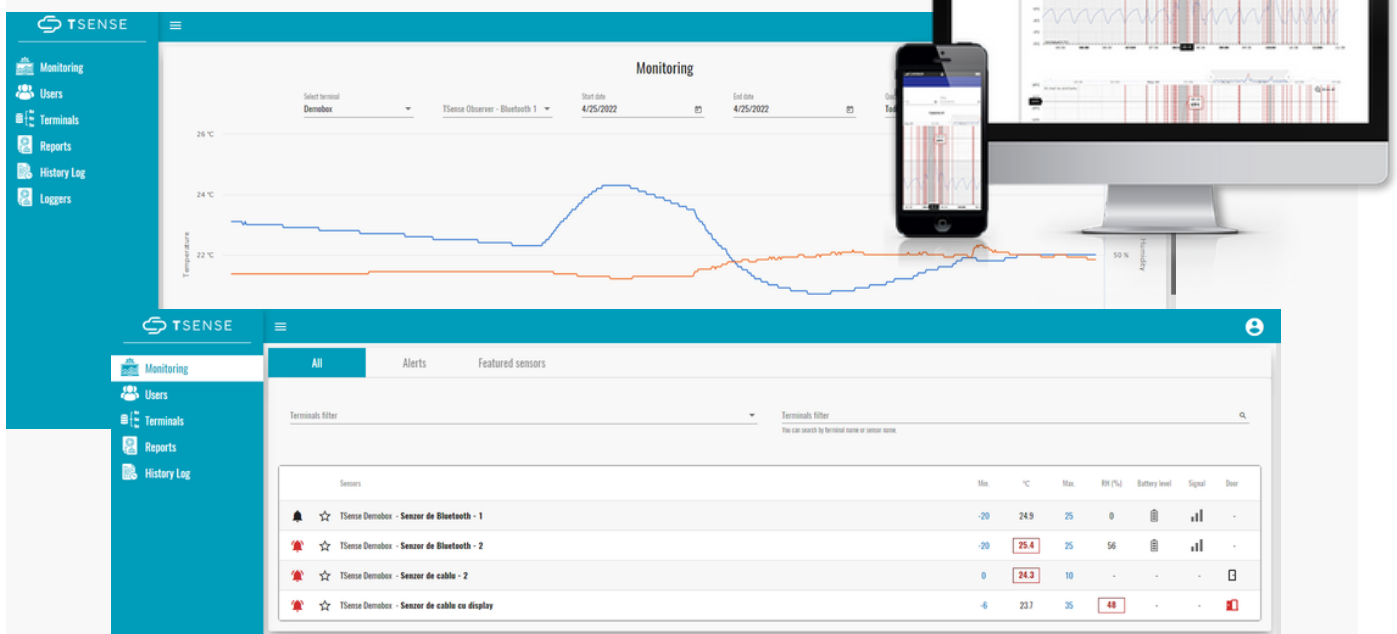


TSense Observer

Temperature & humidity sensor with Bluetooth (BLE).

Produced and sold in over 400 pcs in 2 year.

Software



Front End: Angular

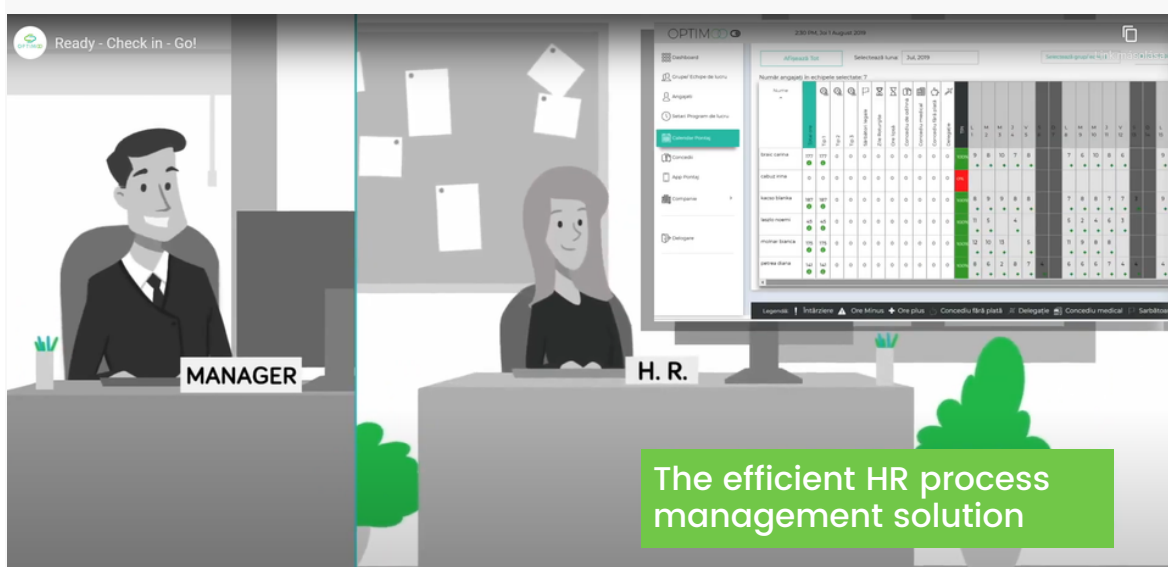
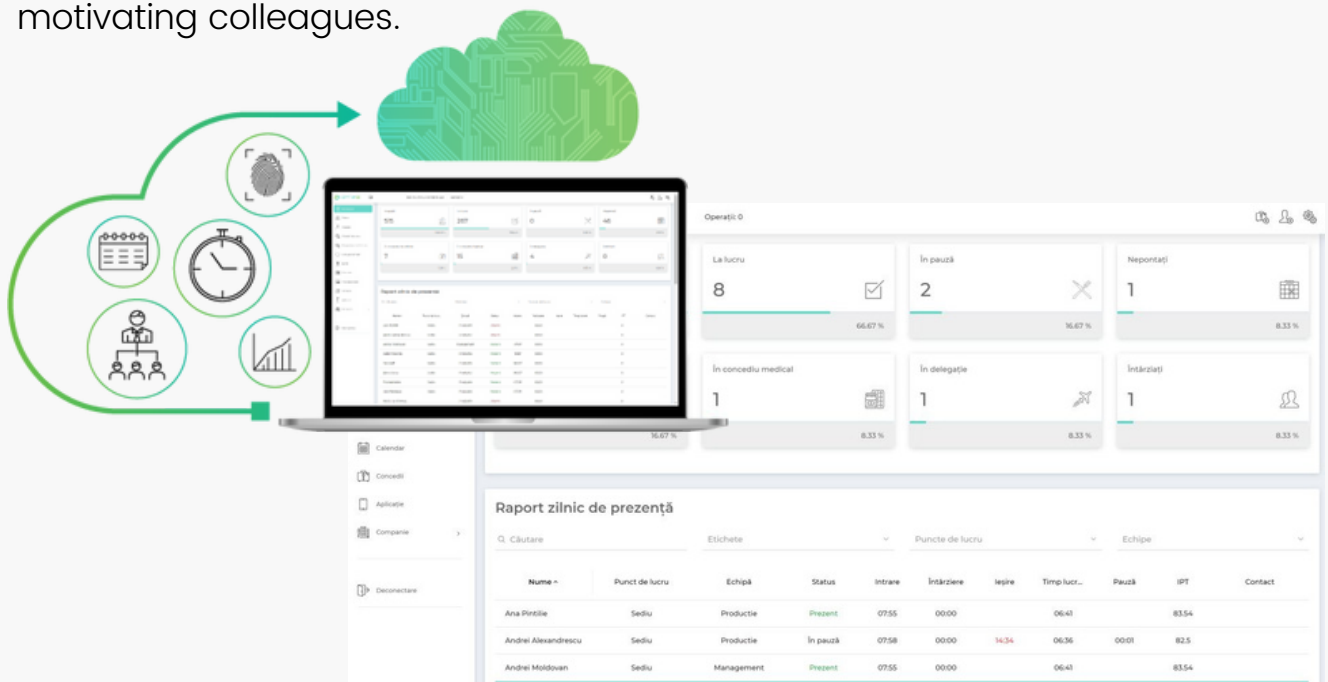
Database: MariaDB, Hibernate

BackEnd: Java Spring

Cache: In memory



Optimoo is a complex cloud based system for highlighting the work schedule and supporting human resources management, which facilitates the digitization of personnel administration processes. The system has multiple functionalities, provides personalized, accurate and traceable data, which can be tailored to the needs of each company. Their role is to help streamline employee activity and simplify HR processes, thus saving time, energy and money for the company. Using the system frees up considerable time for HR department employees, so they can focus on developing and motivating colleagues.



Front End: Angular

BackEnd: PHP Laravel

Database: MySQL

Cache: Redis

Our team & our competences



PROJECT MANAGER WITH BLACK BELT

His superpower:

technical skills and experience in team and project management in automotive and IT.

His most powerful weapon:

building and improving processes to support the growth.

He is an experienced senior manager with knowledge in:

Dynamics NAV, Dynamics 365, 365 for business, MS Project, Omniplan, etc.

SOFTWARE DEVELOPER WITH BLACK BELT

His superpower:

he is able to work 16 hours a day even on a long term basis.

His most powerful weapon:

perseverance, curiosity, laziness (he rather automates repetitive tasks).

He is a senior Full-Stack developer with knowledge in:

JavaScript, Php, Sql, Basic, C\ C++, (beginner in Java/Python). He is working in Frameworks such as JQuery, Angular, React, Laravel, Codeigniter, Symphony and in Docker, MongoDB, Redis, Firebase, Appcelerator, Electron.



SOFTWARE DEVELOPER WITH BLACK BELT

Her superpower:

"let's plan it" approach and communication with the team..

Her most powerful weapon:

curiosity combined with perseverance and good ideas.

She is a senior Full-Stack developer with knowledge in:

Java, MySQL, JUnit test, Maven, Hibernate.

HARDWARE DEVELOPER WITH DARK BLACK BELT

His superpower:

he doesn't know the word "impossible" even more so when it comes to solving technical problems or taking on new challenges.

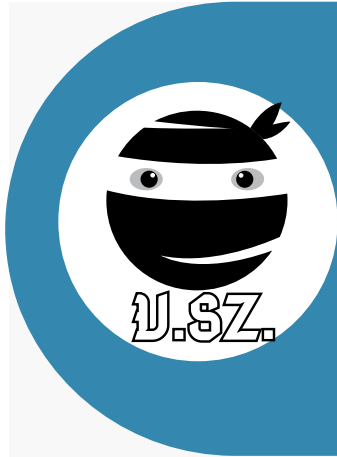
His most powerful weapon:

deep focus and never ending perseverance.

He is an experienced senior hardware developer with knowledge in:

chematics design, PCB design, Firmware development: C/C++, Assembly, EMC compatibility and extensive process and project management.





HARDWARE DEVELOPER WITH BLACK BELT

His superpower:
he likes being a pioneer in new technologies.

His most powerful weapon:
he's able to tackle problems from multiple perspectives.

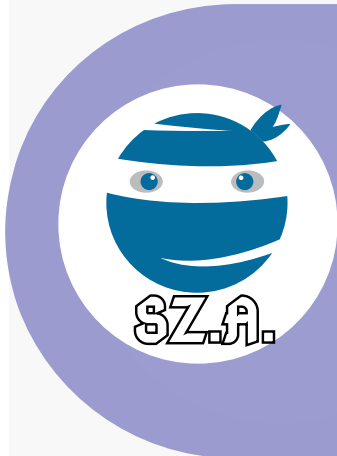
He is a senior hardware developer with the knowledge in:
Embedded C, Matlab, Matlab Simulink, PLC programming, FPGA programming (VHDL),
LabView, LabWindows CVI, Schematics design, PCB design, EMC compatibility,
C/C++, Assembly, Vector CANoe. Last but not least Firmware Development.

SOFTWARE & HARDWARE DEVELOPER WITH BROWN BELT

His superpower:
he is a real Jolly Joker, able to handle many programming languages.

His most powerful weapon:
he likes new challenges..

He is a close to senior hardware and software developer with the knowledge in:
Javascript, Java, Python(+Tensorflow), C#, C++. DevOps: Proxmox, Nginx,
Docker. DB: Postgres, Mongo, Mysql. API: RestApi, GraphQL. Frontend: React(NextJS),
Angular. Phone: Flutter, +Unity. Backend: NestJs, Express, Java Spring.



SOFTWARE DEVELOPER WITH BLUE BELT

Her superpower:
doing magic with Angular.

Her most powerful weapon:
she is motivated by professional development and brainstorming, she can
create a good atmosphere in her team.

She is a middle Front-End developer with the knowledge in:
Frameworks: Angular, Electron.js, React (HTML5, CSS, SCSS, Javascript,
Typescript, Bootstrap, Angular material), Phone: Android, DB: Firebase, MySQL
(beginner in Java, Python).

SOFTWARE DEVELOPER WITH BLUE BELT

His superpower:
he is good at finding the source of bugs.

His most powerful weapon:
he is open to learn new technologies, he is not afraid of facing tasks he has never
met before.

He is a middle Front End developer with the knowledge in:
Javascript (Frontend and Node.js), Typescript, Html, Css, Scss (sass), and middle
level knowledge of PHP, Python, Java. He is working in Frameworks such as Angular,
Laravel, Spring Boot (web), SQL.





HARDWARE DEVELOPER WITH BLUE BELT

His superpower:

he is good at 3D modeling, and he can make them real through 3D printing.

His most powerful weapon:

he has stamina and can cope with any kind of feedback.

He is a middle mechatronics engineer with the knowledge in: Catia, Autodesk Inventor, FreeCAD (3D modeling) for product housing design, Inkscape (design and photo), CNC programming (direct or from 3D model), CNC (Mach3).



SENIOR
DEVELOPERS



MID-LEVEL
DEVELOPERS



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HU



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That's us, SVT Electronics, and that's our experience and knowledge we can offer if you are interested in this kind of development.

Otherwise, if you know somebody or a company who can use our knowledge, who needs software and/or hardware development, feel free to forward this document.

Our colleague, Tibor is waiting for your call, he will be happy to answer all your questions. Please contact him using one of the following contact options.

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