

# CURRICULUM VITAE

## Contact Information

### Gabor Kun - Electronics Hardware Specialist

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- **Languages:** English, Hungarian

## Professional Summary

Electronics hardware specialist with 15 years of experience working in telecommunications, medical devices, aviation and aerospace, military, maritime, electronics manufacturing, and many other sectors. Experienced in developing circuits, troubleshooting, designing, and testing electronic systems. Skilled in providing technical support and training, solving complex problems, and developing innovative solutions to improve the performance of production, products and test equipment. Particularly focused on optimizing designs and procedures for manufacturability, repairability, and stability, with a strong emphasis on the collection and analysis of available data. Frequently ensured seamless integration between production, hardware, software, and mechanical design teams.

Whenever possible, I use open-source software for content creation, organization, and dissemination of knowledge inclusively and sustainably. For example, I create work instructions and project documentation using software just like DopkuWiki, Kicad Interactive BOM List, Falstad's Circuit Simulator facilitating interactive learning and supporting team members and client teams in managing the maintenance of test equipment and calibration tasks. I thrive in work environments where I have the autonomy to improve processes around product research and design, and service delivery. I am passionate about fostering strong collaborations for efficient project execution and do this through activities such as cross-functional workshops and integrated project meetings. In addition to IT and computing skills, I demonstrate proficiency in Python and C programming, focusing on developing embedded software and data analysis capabilities in conjunction with my hardware expertise.

Leadership skills have been honed through supervisory roles and entrepreneurial activities, currently overseeing the work of a Production Support Technician. In this role, I manage test equipment maintenance and calibration tasks, providing technical support for production, research teams, and third-party engineers.

Committed to continuous improvement, excellent service delivery, and efficient project execution.

# Skills:

<ul style="list-style-type: none"><li>• <b><u>Test and Test-Hardware Engineering</u></b><ul style="list-style-type: none"><li>• Test Design and Implementation</li><li>• Test equipment integration into Automated Test Systems</li><li>• Data Collection and Analysis</li><li>• Compliance to Standards</li></ul></li><li>• <b><u>Multidisciplinary Integration and Technical Support</u></b><ul style="list-style-type: none"><li>• Cross-Disciplinary Knowledge and Communication</li><li>• Collaboration and Teamwork</li><li>• Process Integration and Problem-Solving</li><li>• Field Service, Remote Troubleshooting, and Training activities</li><li>• Interpersonal Skills</li></ul></li><li>• <b><u>Circuit Design</u></b><ul style="list-style-type: none"><li>• Schematics, PCB Layout, and Simulations</li><li>• Analog, Digital and Mixed-Signal Electronics</li><li>• Electromechanical Systems</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b><u>Laboratory / Workshop skills</u></b><ul style="list-style-type: none"><li>• Manual, Automated Soldering according to IPC, military, aerospace, maritime, and medical standards. (Leaded and LeadFree technologies)</li><li>• Experienced in working with Radio Frequency (RF) and Power Electronics</li><li>• Pneumatics and Hydraulics</li><li>• Experimental Design / Prototyping</li><li>• Instrument Calibration and Maintenance</li><li>• Troubleshooting and Repairs</li><li>• Technical Documentation</li><li>• Quality Control</li><li>• Environmental Awareness and Safety Procedures</li></ul></li><li>• <b><u>IT, computer skills</u></b><ul style="list-style-type: none"><li>• Computer-Literate</li><li>• Linux and Windows Computers</li><li>• Engineering Softwares</li><li>• Programming Languages (Python, C/C++)</li></ul></li></ul>
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## Favourite Software Tools

### Circuit Design:

- [KiCad](#)
- [Sprint Layout](#)

### Circuit simulation:

- [LTSpice](#)
- [Falstad - Circuit Simulator](#)

### Radio Frequency (RF):

- [Avago Technologies - AppCAD](#)
- [Signal Hound](#) - Spike Spectrum analyzer, and Vector Signal Generator softwares

### Documentation:

- [DokuWiki](#)
- [Jupyter Notebook](#)
- Open/Libre/MS Office

### Automatization and Measurement:

- [NI DAQmx / USB-600x](#)
- [Digilent WaveForms SDK / Analog and Digital Discovery](#) devices
- [FTDI Utilities](#) (Simple USB interfacing)
- [MicroPython](#) - [Thonny Python IDE](#) / [STM32 NUCLEO](#) family and [SEED XIAO](#) family

### Programming:

- MicroPython, [CircuitPython](#)
- [STM32CubeIDE](#)
- [MBED OS](#)
- [JetBrains](#) - [PyCharm](#), [CLion](#)
- [SQLite](#), [PostgreSQL](#), [KeyDB](#) (a Redis alternative), [DBeaver](#)
- [Flask](#), [HTML](#), [HTMX](#)

### Mechanical Design:

- [FreeCAD](#)
- [Simens - SolidEdge](#)

# Work Experience

## **2020 - Present: Ocean Signal Limited, Margate, UK**

[Ocean Signal](#) is a worldwide leader in the design and manufacture of Satellite and Terrestrial Emergency Rescue Beacons based upon VHF/UHF, Iridium, Digital Selective Calling or DSC, Automatic Identification Systems or AIS, GNSS and battery technologies.

- Research and Development Technician
- Production Support Technician

## **2018 - 2020: Simtek EMS Ltd, Margate, UK**

[Simtek EMS](#) manufactures products destined for a variety of applications including medical, marine, instrumentation, automotive, navigation, audio, leisure and industrial electronics as well as the production of battery power packs for a variety of industries and market sectors.

- Production Support Engineer

## **2017: Multipanel UK Ltd, Eythorne, UK**

[Multipanel UK Ltd.](#) The only Aluminium Composite Panel Manufacturer in the UK

- Maintenance Manager

## **2015 - 2017: Megger, Dover, UK**

[Megger Group Limited](#) is a British manufacturing company that manufactures electronic test equipment and measuring instruments for electrical power applications. Megger is known for its electrical insulation testers

- Repairs Technician

## **2013 - 2015: CCL Labels, Ashford, UK**

[CCL Industries Inc.](#) is an American-Canadian company. It describes itself as the world's largest label maker.

- Flexographic and Maintenance Technician

## **2013: Vision Power Ltd., Waltham, UK**

Vision Power manufactured high-spec power supply circuits for extreme environments like subsea, aerospace, and military.

- Laboratory Technician
- Power supplies

## **2012: SBE Ltd., Ashford, UK**

[SBE UK](#) is a leading provider of aftermarket and reverse logistics services in the UK, and an accredited repair centre for several major brands in the telecoms and electronics industries.

- Lead Electronics Technician, Technical Coordinator

# Entrepreneur

## 2020 - 2023: Elektour Limited

- Self Employed
- Managing Director

### **BAE Systems Plc. (2020)**

BAE Systems PLC is a British multinational aerospace, defense, and information security company, produces commercial and defense electronics for flight and engine control, electronic warfare, surveillance, communications, geospatial intelligence, and power and energy management.

### **SEISMIC STUFF (U.K.) LTD**

#### **Black Lab Systems Ltd (2020 - 2023)**

Seismic Stuff and Black Lab Systems were dedicated to advancing exploration technology by delivering industry-leading products specializing in seismic systems development. They aimed to innovate and enhance applications in the seismic industry, meeting the evolving needs of their clients.

- Power Supply design
- Schematic and PCB layout
- Debug and repair services

### **Simtek EMS (2020)**

- Design and support control panel test jigs for HeartSign defibrillators

### **JOMI - The World of Sewing Machines (2022 - 2023)**

JOMI specializes in industrial sewing machines for sale, repair sewing machines, and service machines all over the south coast of England.

- Debug and repair services
- Designing solution for replacing obsolete components

## **2007 - 2010: Various Projects/Contract Works**

- Alongside other business and academic commitments, participated in the projects listed below
- Lead Technician/Coordinator/Translator
- Technical duties: Manual and Machine Soldering, Fault Cause Analysis, QC Inspection, X-Ray Image Analysis

### **Flextronics, Zalaegerszeg, HU (2010)**

Flextronics is an Electronics Manufacturing Services (EMS) provider focused on delivering complete design, engineering and manufacturing services to aerospace and defense, automotive, computing, consumer, industrial, infrastructure, medical, clean tech and mobile OEMs.

- RIM, Blackberry project

### **Scientific Atlanta, Kortrijk, BE (2008)**

Scientific Atlanta, Inc. has been a leading manufacturer of set-top cable boxes and other satellite transmission equipment.

- SetTopBox project
- Design of SATA hard drive tester

### **Solectron, Bordeaux, FR (2008)**

Solectron Corporation was an American electronics manufacturing company for original equipment manufacturers (OEMs). It was the first electronics manufacturing services (EMS) industry in 1977.

- Nortel Networks Project

### **Celestica, Kladno, CZ (2007 - 2008)**

Celestica Inc. is a Canadian multinational design, manufacturing, hardware platform, and supply chain electronics manufacturing services company

- Xbox360 Project

### **ELCOTEQ, Pécs, HU (2007)**

Elcoteq SE was a Finnish consumer electronics contract manufacturer, EMS, and ODM company. It was a manufacturer of BlackBerry phones and also performed repair and refurbishment services.

- RIM, Blackberry project
- Sony Ericsson project

### **JCB service, Miskolc, HU (2006)**

- Electronics and hydraulics fault finding and repairs mostly on JCB 3CX and 4CX excavators

# Education

## IPC Specialist

IPC is a trade association with the aim of standardizing the assembly and production requirements of electronic equipment and assemblies. IPC certification is typically valid for two years. I have undergone numerous IPC certifications and recertifications, as it was a mandatory requirement in many companies such as BAE Systems, Simtek EMS, Megger, SBE, Flextronics, and Elcoteq.

- **IPC-A-610 - Acceptability of Electronics Assemblies**, is the most widely used inspection standard in the electronics industry and has earned an international reputation as the source for end-product acceptance criteria for consumer and high-reliability printed circuit assemblies
- **IPC-7711 / IPC-7721 - Rework, Modification and Repair of Electronic Assemblies** is a widely used standard that offers a range of industry-approved techniques on surface mount and plated through-hole rework, as well as many board repair methods.
- **J\_Std\_001 - Requirements for Soldered Electrical and Electronic Assemblies** is a standard that lists requirements for the manufacture of electrical and electronic assemblies and includes materials, methods, and verification criteria.
- Somewhat familiar with **IPC-2001/2002/2003** Generic and Sectional Design Standards on Printed Circuit Board Design

## 2017: Pitman Training, UK

- Project Management Course

## 2008-2010: University of Miskolc, HU

- Bachelor of Science in Electronics Engineering
- Festo Hydraulics, Pneumatics, and PLCs Fundamental Course

## 2007: ELCOTEQ, Pécs, HU

- In-depth training on 2G and 3G technologies (3 months theory and practice)
  - GSM, GPRS, EDGE
  - UMTS WCDMA and HSPA
  - Rohde&Schwarz CMU200

## 2001-2007: Bláthy Ottó Villamosipari SzKI, Miskolc, HU

- (HV)Electronics Technician (2006-2007)
  - High Voltage, High Power applications
  - Electrical Grids
  - Industrial Automation
- High School Diploma in Computer Science and Electronics (2001-2006)