



GABOR GUBICZA CV

MECHATRONICS MSC 2024 JANUARY

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[PUBLICATIONS](#)



HARDWARE DEVELOPMENT MANAGER

TULIP INTERFACES

2023 FEB - 2023 SEP

INDUSTRY 4.0 SOLUTIONS, SMART MANUFACTURING, IIOT

HARDWARE DEVELOPMENT

- As a team manager, I organized the successful development of a wireless, distributed Machine Monitoring solution from conceptual design to a 6 node prototype system. This was a cross functional team project between the Hardware, Connectivity, QA and Solutions teams. My team used **Altium Designer**.
- I delivered a low cost vision based operator station. The project was delivered with limited resources, on a short time-scale, on time and under the target Unit Cost. Multiple units were manufactured by multiple subcontractors independently in the EU and the USA without a problem. Design was done in **Autodesk Fusion360**.
- I identified gaps in the processes and tools for the Hardware Team, and improved them in a collaborative manner with the stakeholders.
- I organized the suppliers of the local office into a database, tracked their performance in order to share information internally in a synchornized manner.
- Experience in Agile Project Management
- I interacted with Product Management and gave feedback on product roadmaps
- I used **JIRA** for project management, **Confluence** for knowledge base building and **GitHub** for version control.

CROSS-FUNCTIONAL ACTIVITY

- I organized cross-functional team meetings between the Hardware and Support Teams to share knowledge and to optimize processes, such as the RMA policy.
- I carried out Corrective and Preventive Action (CAPA) both from an execution and a planning standpoint.
- I carried out Root Cause Analysis (RCA) of quality events, carrying out the investigation across multiple teams, and wrote the RCA report for transparency.



CTO ROBOTCENTER INNOVATIONS ZRT.

2020-2023

AUTONOMOUS MOBILE ROBOTICS FOR INTRALOGISTICS, AUTOMATION

- I was responsible for overseeing the technological aspect of the company and ensuring that technology aligns with the organization's business goals.
- Identified technology gaps, delivered solutions to address these gaps.
- Project management from first contact with the customer to establishing project specifications, on-site demo, business negotiations, robotic solution integration and deployment at OEM, Tier 1-2 companies including Automotive suppliers.
- I advised Robot manufacturers on how to improve their HW/SW Products.

PROJECTS

- Deployment of several pallet transporting mobile robot fleets
- Automatic material transport from Production to the Quality Lab, Storage
- Custom Mobile Robot Charger for Pallet Transporting Mobile Robot
- Integrating Mobile Robotic Solutions to production and linking it to PLC Systems

Recruiting
Standard Operating Procedures
Team Coordination
Business Negotiations
Marketing & Sales

Onboarding

Performance Evaluation

Support Ticketing System

Client & Partner Relations

Supplier Management

Infrastructure Improvements

Testing

Presentation

Conferences

Integration

Industry 4.0



TECHNOLOGY CONSULTANT RUFUS SOLUTIONS LTD.

2017-PRESENT

RESEARCH & DEVELOPMENT, EMBEDDED DESIGN

FOUNDER AND DIRECTOR

- I developed a specialized sensor for the measurement of corrosion rate for the **Oil & Gas industry** using **Autodesk Fusion360**. I organized manufacturing and deployed the solution to an oil refinery for a pilot project.
- I was the project manager of a battery powered **Data Acquisition System**: 4x 16bit 10kSps Analog Input Channels, 2x Analog output channels, 2x DI, 2x DO, GPS, RTC.
- I created [3D animations](#) for Research visualization purposes, the main clients were the Italian Institute of Technology, Imperial College London
- I designed custom electronics for battery experiments and data acquisition using **Altium Designer**. Prototype building, debugging, testing, validation and reporting was also carried out.
- I developed a [Mechanical Engineering Program](#) in **JavaScript, HTML, CSS**.



RESEARCH ENGINEER
IMPERIAL COLLEGE LONDON,

2012-2019
MECH.ENG. NDT GROUP

NDT, ULTRASONIC SENSOR AND INSTRUMENT DEVELOPMENT

Altium Designer

EMAT, EMAT ARRAY

C++, Python

Conceptual design

Schematic design

SPICE simulation

PCB Design 4-6 Lyr

Multi PCB Instrument

Matlab Scripting

PIEZO

Embedded Development

Production files, BOM

Documentation

Managing manufacturing

Testing, Debugging

Data Acquisition

SolidWorks

ROBOTIC INSPECTION

Mech. Engineering

3D Printing

Deployment

Manufacturing

Organization

DFT, DFM, DSP

LABORATORY MANAGEMENT

I managed the Non-Destructive Testing group's daily laboratory activities involving 30 PhD, EngD and PostDoc researchers. **LEAN, KAIZEN, 5S** methodologies.

I organized workplace safety, responsible for: **EHS, MSDS, COSHH, Risk Assessments**

I planned a new laboratory floor layout, I improved space useability by 20-30%

I organized and managed the moving of the laboratory multiple times

EDUCATION

MECHATRONICS & ROBOTICS MSC.

NEWCASTLE UNIVERSITY, UK 2011-2012

Graduated with distinction

Regularly gave tutorials in Control Theory, Signal Processing and Electronics

MECHATRONICS BSC.

BUDAPEST UNIVERSITY OF TECHNOLOGY

2007-2011

Top of the class in Technical Drawing, CAD and IT

Theodore Karman Mechanical Engineering Student Competition winning team member

ADDITIONAL INFO

DRIVER'S LICENSE

~ 10-30.000+ km / year

LANGUAGE KNOWLEDGE



Hungarian Native



English Professional level



French Intermediate



German Learning

HOBBIES

PHOTOGRAPHY

Engineering, Technology, Design,

Graphics Design, Architecture, Nature



[instagram.com/gabor.gubicza](https://www.instagram.com/gabor.gubicza)

EDUCATIONAL VIDEOS



[youtube.com/gaborgubicza](https://www.youtube.com/gaborgubicza)

SPORTS

Sailing, Gym, Yoga, Krav-Maga