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# 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        2020-2023
### ROBOTCENTER INNOVATIONS ZRT.
### 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 | Onboarding   Performance Evaluation | Testing |
| Standard Operating Procedures | Support Ticketing System | Presentation |
| Team Coordination | Client & Partner Relations | Conferences |
| Business Negotiations | Supplier Management | Integration |
| Marketing & Sales | Infrastructure Improvements | Industry 4.0 |

## TECHNOLOGY CONSULTANT     2017-PRESENT
### RUFUS SOLUTIONS LTD.
### 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 Acqusition 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 Enineering Program in **JavaScript**, **HTML**, **CSS.**

## RESEARCH ENGINEER     2012-2019
### IMPERIAL COLLEGE LONDON,     MECH.ENG. NDT GROUP
### NDT, ULTRASONIC SENSOR AND INSTRUMENT DEVELOPMENT

| | | |
|---|---|---|
| **Altium Designer** | **Matlab** Scripting | **SolidWorks** |
| **EMAT, EMAT ARRAY** | **PIEZO** | **ROBOTIC INSPECTION** |
| C++, Python | Embedded Development | Mech. Engineering |
| Conceptual design | Production files, BOM | 3D Printing |
| Schematic design | Documentation | Deployment |
| SPICE simulation | Managing manufacturing | Manufacturing |
| PCB Design 4-6 LYR | Testing, Debugging | Organization |
| **Multi PCB Instrument** | Data Acqusition | 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 Mechnical Engineering Stundent Competition winnig team member

## ADDITIONAL INFO

### DRIVER'S LICENSE
~ 10-30.000+ km / year

### LANGUAGE KNOWLEDGE
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|---|---|---|
| 🇭🇺 | Hungarian | Native |
| 🇬🇧 | English | Professional level |
| 🇫🇷 | French | Intermediate |
| 🇩🇪 | German | Learning |

## HOBBIES

### PHOTOGRAPHY
Engineering, Technology, Design, Graphics Design, Architecture, Nature
📷 instagram.com/gabor.gubicza

### EDUCATIONAL VIDEOS
▶ youtube.com/gaborgubicza

### SPORTS
Sailing, Gym, Yoga, Krav-Maga