Thomas Loch

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Summary

IoT Developer with a focus on hardware. Experienced with software (C#) / cloud workflows of Microsoft, along with Azure Dev-Ops build pipelines.Previous experience in the electronic manufacturing industry, focusing on pcb development and manufacturing proficiency. Skilled with C#, ASP.NET Core, Altium Designer, Autodesk Inventor, Azure Dev-Ops, Agile/scrum methodology. Strong professional with a Bachelor of Aviation from Griffith University.

Education

2019, Working Talent, The Netherlands
IoT Masterclass

2018 - 2021, University of Southern Queensland, Australia
Bachelor of Engineering (Honours) Majoring in Computer Systems
GPA: 6.29

2009 - 2012, Griffith University, Australia
Bachelor of Aviation, Graduate Diploma of Flight Management
GPA: 4.6

2007 - 2008, Metropolitan South Institute of TAFE
Certificate III in Computer Aided Drafting

2004 - 2008, Loganlea State High School
High School Certificate Year 12

Certificates

Microsoft 70-483 Programming in C#

Work Experience

03/2019 - Current, Atos (via Working Talent)
IoT Developer
- Medical Smart Fridge: This project revolved around the tracking and tracing of medicine, through the use of RFID technology. The purpose was to keep tight control over controlled drugs, be able to pinpoint which fridge the medicine resides in, and keep track of expiration dates / storage conditions. I was responsible for hardware procurement, assembly, and programming.
- Connectivity Platform: This project aims to serve as a single cloud based point of access for various data sources. I become involved with the project as scrum master, and programmer for small battery operated hardware. I worked with various communication platforms such as LoRa, NB-IoT, and BLE (Bluetooth).
- *Tools Used:* C#, ASP.NET Core, C++, Arduino, Git, Scrum, Azure, SQL, Azure devops pipelines.

11/2017 - 01/2019, Loch Engineering
Owner
- Design and assembly of custom mechanical keyboards
- *Tools Used:* Altium Designer, Autodesk Inventor, C#, C++, Git.

07/2016 - 11/2017, Pacific Data Systems Australia Pty. Ltd.
Production Technician | R&D Technician

- Assembly and testing of company products, using machines and hand tools.
- Assembly of pcb's, using a pick and place machine (Autotronik BA385V2), and reflow oven.
- Assembly of small R&D pcb batches, using hand tools, down to 0402 sized components.
- Programming, fault finding and fixing of assembly and R&D pcb's.
- Designing circuit boards, to a strict set of design standards based on product needs.
- Maintaining an up to date inventory of all components, and upkeeping the BOM of all company electronic products.
- Making inhouse modbus testing software using C#
- *Tools Used:* Altium Designer, Autodesk Inventor, C#, Git.

11/2013 - 07/2016, Aldi
Trainee Store Manager (from 10/2014) | Workplace Health & Safety Officer

- Exceptional customer service.
- Responsibility of all store money.
- Ensuring shifts happen as scheduled, within operational guidelines at all times.
- Staff training, and maintenance of standards among all staff.

04/2011 - 07/2013, Woolworths Supermarket
Perishables Assistant | Storeman

- Customer service.
- Stock monitoring, presentation, and preparation.
- Cold stock handling.
- Oversight of safety on the dock.
- Accepting deliveries & safe loading/unloading of trucks.

Skills

Languages

- English
- Dutch

Computer software | languages

- AutoCAD - 2d/DXF preparation for production.
- Inventor - 3d modelling and sheet metal design.
- Altium - 2-4 layer design, down to 0402 size
- C/C++ - Custom keyboards, usb io boards
- C# - Testing software, using RS485/Modbus
- HTML/JavaScript - Basic website design, pure JavaScript
- Latex - Math assessment, resumes & cover letters
- Git - multi user projects

Other

- I run my own business designing and selling custom keyboards

Aviation

License
Commercial Pilot License 11/04/2012 | Training Completed at the Airline Academy of Australia
Private Pilot License 18/07/2011 | Training Completed at the Airline Academy of Australia Total
Time: 240 Hrs | PIC: 80 Hrs

Rating & Endorsements
○ Single Engine (<5,700 kg)
○ Multi Engine Command Instrument Rating
○ Beechcraft Duchess BE76
○ Manual Propeller Pitch Control
○ Retractable Undercarriage
○ Tailwheel Undercarriage

Flight Hours
○ Total time: 240 Hrs
○ Pilot in Command: 80 Hrs
○ Multi Engine: 30 Hrs
○ Night Time: 12 Hrs
○ Beechcraft Duchess: 30 Hrs
○ Cessna 172RG: 49 Hrs
○ Cessna 172R/S: 154 Hrs
○ Citabria: 7 Hrs

References

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