DYLAN BELVEDERE

Shenzhen, China odylanbelvedere@outlook.com

Education

September 2010 -June 2017

Bachelor of Applied Science - Mechatronic Systems Engineering, Computer Science. Certificate - Chinese Studies

Simon Fraser University

- Industrial, Manufacturing and Systems Courses PLC, industrial robotics,material handling systems, production lines, assembly systems, robotic cell design, cellular manufacturing,quality control, advanced kinematics for robotics systems, fluid/electrical/mechanical/thermal system modelling, feedback control systems
- Electrical and Mechanical Courses Fluid Mechanics, thermodynamics, statics and dynamics, MEMS, power electronics, sensors and actuators, digital circuits
- Programming Courses Artificial Intelligence, data communications and networking, OS design, databases

September 2017 -December 2017

Siemens Mechatronic Systems Certification Level 1

Administered by Simon Fraser University

- PLC programming Siemens Step 7
- Pneumatic and Hydraulic systems with Festo components and simulation
- Troubleshooting on Siemens S7-1500 PLC assembly line, and simulation software
- Industrial Electrical and Mechanical systems design

PLC/HMI Programming Programming C, C++, Linux, Assembly, MATLAB, SQL, No-SQL, NodeJS, ReactJS, ExpressJS, AngularJS, Java(Android), HTML, Python CAD Design PCB Design KiCAD, Altium

June 2019 - April 2022 Product Engineer

Notifai

• Development of WiFi and LoRa based air quality detection devices

Work Experience

- Creation of a variety of test jigs(Linux, Python) for our electronic devices
- Web and app(Angular, NodeJS) development to work along with our electronic devices
- PCB(Altium) and 3D CAD(Solidworks) design to complete projects and test jigs
- Embedded programming on ST Microcontrollers using C
- Experience using UART, I2C, and SPI to communicate with device sensors
- Setup and implementation of LoRa Basics Station on Raspberry Pi based Gateways
- Sourcing of components using Mandarin Chinese

March 2017 -October 2017

Integration Engineer

Plasmatic Technologies Inc.

- Development of home security keypad
- Linux system embedded development using C++, ReactJS, ExpressJS, and NodeJS
- TI MCU Programming in C
- PCB Design in KiCAD and electronics circuit design
- Communication protocols MQTT, SPI, I2C, UART
- AWS Gateway, Lambda, DynamoDB, IOT
- 3D prototype design using Solidworks

| April 2015 - September 2015 | Product Development Engineer C ORA Scents • Development of smart phone contr • 3D prototype design using Solidword • ESP8266/Arduino programming in C • HTML interface design for sending r | olled scent diffuser rks C equests |
|--|--|---|
| September 2014 - December 2014 | Electronic circuit design including LEDs and Colpitts oscillator Electrical and Testing Engineer Co-op | |
| | Corvus Energy Ltd. | |
| | Developement of test systems for lithium ion battery management systems PCB and schematic design in Altium Test system for battery power supplies Battery testing heat, cycle, and ripple | |
| | Extra Curi | ricular |
| 2015 - 2017 | Founder and Director Maker Cube Society Non-profit organisation that I founded which ran a community technology work and educations | |
| | space (makerspace) in Surrey, BC | which rain a community technology work and educations |
| 2014 - 2016 | Competitor and Organiser | |
| | Simon Fraser University Engineering Competition | |
| | Competitor and winner of the competition in 2013 and 2014, organiser in 2015 and 2016 | |
| 2014 - 2017 | President and Vice-President | |
| | Mechatronic Systems Engineering Students Society | |
| | Lead in many positions at the engineer | ing student society at Simon Fraser University |
| | Award | ds |
| Surrey Board of Trade - Surrey Top 25 Under 25 - 2016 SFU - Mechatronics Triple A Award Next36 - Finalist - 2017 | | Huawei Mobile - Seeds Award - 2016 APEGBC - Student Member Award APEGBC - BC Hydro 4th Year Award |
| | Additional | Skills |
| Soldering Electronic Testing | Mechanical Design Floctrical Design | Embedded Design 3D Printing and Papid Prototyping |

- Electronic Testing
- Feedback Controls
- Electrical Design
- Intermediate Mandarin Chinese
- 3D Printing and Rapid Prototyping
- Basic French

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