

Dylan Belvedere

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Education

Simon Fraser University	Fall 2010 – Summer 2017
<i>Bachelor of Applied Science</i>	
Major in Mechatronic Systems Engineering	
Minor in Computing Sciences	
Certificate in Chinese Studies	
Chinese University of Hong Kong	Spring 2013

Skills

Hardware

-Circuits (Oscilloscope, etc.)	-MPU(Linux)	-3D Printing and Laser Cutting
-MCUs (Arduino, TI)	-Soldering (THD, SMD)	

Software

-PCB (KiCAD, Altium)	-CAD (Solid Works, SketchUp)	-C/C++, Robot C
-PLC (Siemens S7, LogixPro)	-VDHL (Designworks)	-Full Stack Web Dev (MEAN stack, ReactJS)
-HMI (Siemens SIMATIC WinCC Flexible)	-Assembly(Code Warrior)	-AWS (IOT, APIC, Lambda)
	-MATLAB	-SQL

Courses

-Industrial Control Systems	-Computer Aided Manufacturing	-Advanced Kinematics of Robotics
-Manufacturing Systems		

Language

-Intermediate Mandarin	-Basic German
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Technical Experience

Plasmatic Technologies Inc.	March 2017 – October 2017
<i>Integration Engineer</i>	

- Developed a connected security keypad and smart home platform
- Schematic and PCB design using KiCad
- MCU programming in C using Code Composer
- Embedded development using NodeJS on MPU running Linux (Debian)
- App development with a ReactJS, ExpressJS, and NodeJS

Corvus Energy Ltd.	September 2014 – December 2014
<i>Electrical Engineer</i>	

- Worked with one of the leading companies in lithium-ion battery management systems in developing green power for heavy machines and vehicles
- Built test fixtures including switching boxes, and testing for PCB parts, used these fixtures to test lithium-ion battery cells, modules and packs in various ways
- Built automated cycling test fixtures for burn-in and HASS tests of power supplies
- Altium design of schematics and components

ORA Scents

August 2014 – January 2016

Co-Founder and Former CTO

- Developed proof of concept for the most technologically advanced scent diffuser, which includes multiple scent diffusion, custom lighting, and smart phone control
- Used ESP8266 MCU and Wi-Fi module to develop an app connected IOT device
- Lead technical development and meetings in a start-up environment

Yangtze Optical Fibre and Cable

May 2013- August 2013

Electrical and Mechanical R&D Engineer

- Worked In Wuhan, China at the country's largest fibre optic cable manufacturer
- Programmed a Siemens S7-200 PLC using STEP 7 MicroWIN
- Created an HMI to work with the machine using SIMATIC WinCC Flexible
- Designed concept parts for machines for fibre string spooling in Solidworks CAD
- Developed an understanding of the entire fibre optics creation process, and optical properties of materials used in the process

Technical Education Experience**Science World Vancouver at TELUS World of Science***Robotics Program - Course Designer and Teacher*

September 2012 – December 2016

- Provided students with programming and engineering advice to optimize their robots, by teaching them C programming language for VEX and Lego Mindstorm Robotics
- Developed 3 levels of course content that have been taught for 5 years

Maker Cube –Surrey Makerspace

June 2015 – Present

Founder and Director

- Opened Surrey BC's first makerspace
- Held various workshops at our space, libraries, and schools to increase technical education in Surrey
- Managed and grew the business to offer additional services such as 3D printing, technical repair, and technical education in addition to space rental for start-ups and projects

Extra Curricular**Simon Fraser University Engineering Competition**

Fall 2013, Fall 2014

*1st Place in Re-Engineering, 1st Place Innovative Design***Mechatronic Systems Engineering Student Society**

May 2014 – April 2017

*UP Events, UP External, President***Awards**

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| • Huawei Mobile –
Seeds of the Future 2016 | • APEGBC Scholarships –
Student Member, BC Hydro 4 th year |
| • Surrey Board of Trade -
Surrey Top 25 Under 25 of 2016 | • SFU Scholarships –
Mechatronics Triple A Award |