

# Michael Huang

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## Work Experience

### Full Stack Software Engineer

GrainFox 10/2022 – 09/2023

- Developed industrial Agri-Tech solutions serving 5k+ users following an agile framework using a Vue.js and Django Stack.
- Integrated DataDog as a cloud monitoring solution to decreased system down time and bug-fix time by up to 90%.
- Implemented and maintained 25+ services, features, and components with corresponding test procedures.

### Software Developer

MapaRobo 10/2021 – 03/2022

- Architected a cross platform app to enable machine localization using React Native and Google Maps Platform.
- Established remote control capabilities via WebSocket and ROS to enable real time tracking and controlling capabilities.
- Worked closely with product manager, engineers, and designers to refine product requirements via user story.

### Control Engineering Co-op

Ballard Power Systems Inc. 01/2020 – 08/2020

- Upgraded SCADA systems and HMIs using LabVIEW to advance industrial Fuel Cell test station performance.
- Migrated legacy C# DLL functionalities to improve Historian InSQL database connectivity.
- Automated test station reporting using Excel and generated comprehensive documentation to provide stakeholders with regular updates on efficiency and consumption.

### Control Technician Co-op

Northwest Tech-Con Systems Ltd. 05/2018– 08/2018

- Optimized sump pump manufacturing process to reduce downtime and ensure continuous production.

### Outreach Robotic Instructor

Sticks and Stars 06/2016 – 07/2017

- Inspired and mentored over 25 students/cohort in a collaborative project-based competition setting on the application of code and robotics using LEGO Mindstorm.

## Projects

### Supervised Algorithmic Stock Trader

Personal Winter 2022

- Engineered a data pipeline, overseen back testing strategy development, and integrated GUI using Python to enable high frequency trading via Interactive Brokers.

## Skills

### Specialties

Googling, Full Stack, Web Development, Mechatronics, GUI/HMI, SaaS

### Languages

Python, JavaScript, TypeScript, SQL, HTML/CSS, Rust, Markdown, C++, Ladder logic, English, Chinese Mandarin

### Frameworks / Libraries

**Full Stack:** Vue.js, Next.js, React, React Native, Django, Tailwind CSS, Jest, Redux, Selenium, Playwright

**ML/AI:** Pandas, NumPy, Matplotlib, Scikit-Learn

### Software / Tools

NoSQL, Git, Docker, Confluence, Jira, Google Cloud Platform, Google Map Platform, Firebase, SendGrid, Netlify, Vercel, LabVIEW

### Hardware

SCADA, PLC, Beckhoff TwinCAT, Siemens, Raspberry Pi, Arduino, CAN, SPI, UART

## Education

BASc Mechatronic Systems Engineering,  
Computer Science Minor - AI

Simon Fraser University 10/2021

## Certifications

### Certified ScrumMaster (CSM)

Scrum Alliance 12/2023

C, C++, C#, Java SQL, HTML Certifications

Sololearn 11/2019

### Mechatronic Systems Assistant

Siemens 12/2018

- > 20 hours troubleshooting Siemens PLCs.

## Extracurricular Experience

### Executive -> Vice President

SFU-S Badminton Club 09/2018 – 11/2021

### Technical Mentor

Technovation Girls 12/2020 – 04/2021