Ricky Huang

Electrical Engineering

SKILLS

Programming:
C++, Python, JavaScript, HTML5, CSS, Excel VBA

Hardware:
Soldering, Hardware Debugging, Schematic and PCB Design

Software:
Altium Designer/365, Confluence, Eclipse, Microsoft Excel, Git, Helix ALM, Jira, Visual Studio, Wireshark

EDUCATION

University of Waterloo
September 2019 – Present

Candidate for Bachelor of Applied Science,
Honours Electrical Engineering
• Courses taken include
  • Linear and Digital Circuits
  • Fundamentals of Programming

INTEREST

• Technology
  • Worked with high school robotics team to help build the robot and mentor junior team members
  • Up to date with new hardware component releases and always tinkering with personal computer
• Music
  • Involved in various music ensembles during high school
  • Experienced with instruments such as Trumpet and Piano

PROJECTS

University of Waterloo Midnight Sun Solar Race Car Team
Waterloo, Ontario | September 2019 – Present
- Created Connector Testing Board for determining material standards for the team's use of **Micro-fit, Ultra-fit** and **Duraclik** Connectors
- Updated pre-existing boards such as Battery Management System Carrier Board and Battery Module Connector Board to include updated components and better temperature monitoring
- Debugged **STM32F0** controller on Controller Boards to find soldering shorts and inoperable boards and documented on confluence
- Developed inventory tracking systems using Microsoft Excel and Excel VBA to audit the purchase of connectors and crimps valuing over **$5000**
- Updated team documentation including sections within the Altium 365 guide and power consumption evaluation.

Digit Recog
Hack The Valley 4 | JavaScript, HTML5, CSS | February 2020
- Collaborated with team members to build a website for recognizing numbers using TensorFlow Machine Learning
- Created user interface for number input in Digit Recog with trackpad and touch support on **JavaScript**
- Assisted team members on design and interface of website with the use of **HTML5** and **CSS**

WORK EXPERIENCES

Quality Assurance Tester Co-op, Electronics for Imaging
Toronto, Ontario | November 2020 – December 2020
- Tested and documented over 100 changes and test cases for FedEx's network conversion project from on-site to cloud through log analysis.
- Communicated effectively exclusively online with the quality assurance and development team.
- Adapted to work from home environment promptly with minimal help to maximize workflow given the shorten work term.
- Repaired and retrofitted EFI's proprietary machine including the M500 and M600 to meet standards for external deployment.

On-site Support Technician Co-op, SunLife Financial
Toronto, Ontario | January 2020 – May 2020
- Documented and communicated troubleshooting problems with Colleagues, Managers, and Directors
- Resolved over **600** troubleshooting problem and ticket requests from clients, addressing over **80%** of requests within an hour
- Tested and documented proprietary software used by clients