

Ricky Huang

Electrical Engineering

SKILLS

Programming:

C++, Python, JavaScript,
HTML5, CSS, VHDL, Excel VBA

Hardware:

Soldering, Hardware
Debugging, Schematic and
PCB Design

Software:

Altium Designer/365,
Confluence, Eclipse, Microsoft
Excel, Git, Jira, LTSpice,
Proteus, Intel Quartus, Visual
Studio, Visual Studio Code

EDUCATION

University of Waterloo

September 2019 – Present

Candidate for Bachelor of Applied
Science,

Honours Electrical Engineering

• Courses studying include

- Electromechanical Energy Conversion
- Semiconductor Physics and Devices

• Courses taken include

- Electronic and Digital Circuits
- Algorithm and Data Structures

INTEREST

• Technology

- Up to date with new hardware component releases and always tinkering with personal computer

• Music

- Experienced with instruments such as Trumpet and Piano

WORK EXPERIENCE

Technical Marketing – Performance Lab, Advanced Micro Devices

Richmond Hill, Ontario | May 2021 – August 2021

- Compiled benchmarked data on the performance of **16** consumer graphics products from the Radeon Technologies Group and their competitors
- Maintained over **20** existing game scripts that the performance lab use due to frequent game updates and new improvements
- Assisted on quality assurance testing and performance analysis for the release of the **Radeon RX 6600 XT**

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.
- 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

EXTRA CURRICULAR

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.