Justin Aujla

2A Computer Engineering, University of Waterloo

// Experience

Teranet Inc. // Software Engineering Intern

Sept - Dec 2020

- Designed, and built unit testing infrastructure to replace neglected manual testing and improve code quality using **TypeScript**, **Karma**, and **Jasmine**.
- Created scripts to sync shared assets between AngularJS and Angular 10 web app to streamline tech stack transition using C#, Python, BASH, and Git Hooks.

VirtaMove // Software Engineering Intern

Jan - Apr 2020

- Architected the end-to-end data collection, processing, and user interface generation pipeline for log data using C# and HTML with Blazor and SignalR; created on-the-fly log level control using JavaScript, and SASS user interface.
- Methodically and extensively completed 160+ manual test cases, spearheaded 3+ new test suites, and modified 15+ test cases to improve testing accuracy.
- Lead the implementation of authentication and authorization in .Net 3.1 for a server migration web app to improve client security.

B.C. Tech for Learning Society // Hardware Technician Jun – Sept 2019

 Refurbished 25+ personal computers (PC) and diagnosed 250+ pieces of PC hardware within a strict 3-week deadline; a fast-paced environment, working on up to 3 PCs at a time.

Waterloo Hyperloop Team // Motor Control Lead Sept 2019 – Present

- Organizing an intercollegiate forum for the advancement of non-contact propulsion, guidance, and suspension systems.

Catrobat // Open-Source Software Developer

Sept – Dec 2018

// Projects

Sept – Dec 2020

Git, LTSPICE, Altium Designer, PCBA, Oscilloscope

 Designed, simulated, and developed an isolated buck converter to power electromagnetic propulsion system in LTSPICE and Altium; sourced components, assembled PCB, and tested board.

Homemade Electric Longboard

Aug 2019 – Present

System integration, Electrical and schematic design, Soldering

 Designed and manufactured a fully functional low-cost electric longboard using recyclable materials for communal use; mitigated environmental impact while providing fast and affordable transportation.

Mr. Postman ☑

Dec 2018 – Apr 2019

Java, C++, Python, Apache 2, Firebase, Postman, BASH

• Spearheaded development the first IoT enabled biometric smart mailbox to mitigate mail theft using **Apache 2**, **Android studio**, **Arduino**, and **Raspberry Pi's**.

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// Skills

Languages

- TypeScript, HTML, and CSS
- C#, C++, and Java
- · VHDL, Python and MATLAB

Frameworks

- · Angular, Jasmine, and Node.js
- .NET Core, and Blazor

Tools

- Git, BASH, Unix, VirtualBox, Azure DevOps, and Postman
- · Firebase and Google Analytics
- · Altium, LTSPICE, and PSIM

// Achievements

Horatio Alger National Entrepreneurial Scholar // 2019

 Presented to 10 Canadian Students who exhibit exceptional academic success, desire and ability to be entrepreneurial, deep involvement in co-curricular and community service activities, and display integrity and perseverance in overcoming adversity.

Winner at nwHacks // 2019

 Chosen out of 130+ teams for the "Most Innovative Home Buying Experience" prize.

// Activities

Boys4Real ☑ // Program Leader Jun 2014 – Present

 Inspired 200+ youth to appreciate themselves and live healthy; taught time management, conflict resolution, and community service.

Aujla Labs // Founder

Sept 2018 – Present

 Designing tech to make the world accessible for people of all abilities.

Free Geek ☑ // Volunteer

Jun 2016 – Present