DANIEL WEISBERG

🔿 3A Computer Engineering

(289) 995 3333

Daniel Weisberg.com

 <u>dweisber@uwaterloo.ca</u>

in linkedin.com/in/weisbergdaniel

Technical Proficiency

Fluent in:	C/C++, Java, C#, Python, MS-SQL
Familiar with:	VHDL, Microsoft Azure (App Service, Machine Learning, Azure DB), NoSQL, Javascript, TypeScript
Platforms:	macOS, Windows, Android, iOS, Arduino, BlackBerry, ARM, NRF51 Series
Experience in:	PCB Design & Manufacturing, Soldering & Reflow, Networking, Agile Development, Unit Testing
Experience with:	KiCAD, Altium, Circuit Design, Tensorflow, Firebase, Unity, Localytics, New Relic, Jira, Confluence, Jenkins

Hardware Experience

2018 Canadian Finalist for Microsoft Imagine Cup	 Developed schematic and soldered SMT components for hardware sensors Interfaced Atmel328 MCU with ultrasonic sensor for distance measurement Implemented wireless star network for sensors to communicate between each
Hardware sensors that track person's movement in home and	other using 2.4 GHz Radio (NRF24L01)
predict health problems related	Enabled central sensor in network to send data to the cloud via GSM module
to the movement	 Selected efficient voltage regulators to power each sensor from 9V battery Programmed unit in C++
DanielWeisberg.com/seeme	
ENVR Velocity Finalist	 Worked with NRF51 series processors to develop low cost product with inbuilt Bluetooth Low Energy and ability to control fans, pump and vibration motors
Tactile feedback device for virtual reality headset	 Implemented matching network and high frequency printed antenna in accordance to whitepaper, tested RF signal and adjusted antenna as required
DanielWeisberg.com/ENVR	 Developed schematic & PCB design using Altium, SMT soldered the board
	 Programmed unit in C using Keil uVision 5
EzBot	 Used Kicad to create PCB design for the EzBot and assembled/soldered the final printed board
Robotics platform with I/O ports for interfaces that was controlled	 Interfaced Arduino Pro Mini with Bluetooth module (HC-06) for wireless communication with mobile phone
via Bluetooth using a mobile app	 Added voltage regulators for EzBot to accept 5V and 7-12V
DanielWeisberg.com/EzBot	Programmed MCU using C++ and Arduino IDE
Coursework (ECE 124, ECE	 Programmed FPGA using VHDL for laboratories
222, ECE 224, ECE 327)	Studied ADC, DAC, OpAmp, Transistors, Basic Electric components
	 Worked with oscilloscopes, multimeters, waveform generators

Software Experience

Software Developer

Ultimate Software

Jan - Apr 2018

Software Developer

TribalScale May - Aug 2017

Mobile Developer

VIQ Solutions Sept - Dec 2016

OPTA Information

Jan - Apr 2016

Fullstack Developer

- Implemented New Relic tracking into production server to track stability and resource usage
- Developed internal data transfer app in C# that moved JSON data between testing to production
- Built file storage website with user authentication to store the documents of 5K clients
- Designed and developed iOS (Swift) and Android (Java) version of "VIQ Enconnect" app
 Added new features to mobile app including send/receive mail page and video recorder
 Implemented RESTful API with ASP.NET Web API required for the new app features

Created RESTful API using C#, SQL and frontend in Angular 2 for employee CRUD pages

Worked with web accessibility expert to make website accessible for blind and visually impaired

Improved page loading time of content heavy pages by 35% via lighter components and caching

Led 4 person intern team to create playground website for company's custom angular components

Developed for iOS and Android versions of ABC News (5M users) & CBS Radio (400K users)

Addressed issues using Crashlytics to reduce app crash rate by 15% and memory usage by 20%

Implemented RES I full API with ASP.NET Web API required for the new app features
 Determined and fixed issue with large videos becoming corrupted when uploaded to server

Used Java and Swift to add video streaming, custom animation & views, Localytics

Implemented mobile network layer using Postman and Charles to monitor endpoints