

Seth Whalen

Electrical Engineer

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Final year Electrical Engineering student at the University of British Columbia with 12 months of industry experience.

EDUCATION

BASc. Electrical Engineering

University of British Columbia

09/2017 – 05/2021 Courses

◆ Basic Algorithms and Data Structures

- Intro to Software Engineering
- ♦ Systems and Control

Vancouver, BC

- Microcomputer System Design
- Modern Web Applications

■ WORK EXPERIENCE

Firmware Validation Specialist

Avigilon by Motorola Solutions

01/2019 – 09/2019 and 05/2020 – 09/2020 Vancouver, BC

- Monitored and tested camera performance to identify potential bugs, developed solutions, and collaborate with a team of 15 firmware developers on solution implementation
- Constructed and maintained accurate and efficient automated test scripts in Python to manage testing of certain camera products and features
- Debugged Python code and located root causes of problems by reviewing configuration files and device logs
- Assessed firmware bugs and compiled findings along with resolution techniques in documentation to disseminate to firmware team
- Utilized a Linux environment to test cameras' IPV4/IPV6 functionality and process cameras' core dump logs

Junior Technician

UBC Department of Computer Science 05/2018 - 09/2018

Vancouver, BC

- Installed well-functioning LAN/WAN and managed components, including servers and IPs
- Assisted staff and faculty members by troubleshooting computer-related issues such as virus removal, password resets, email setup and software installs
- Completed projects by applying engineering, technical and maintenance procedures
- Performed several computer software installations and deletions to extend use of a variety of computer hardware

* SKILLS

Systems/Ver	sion Control Git/GitHub	Jira	Windows
Confluence			
Software Development			
C++	C#	Python	UML C
Web Development			
JavaScript	TypeScript	lonic	Angular
HTML/CSS	MongoDB	Node.js	
Protocols			
SPI	I2C	CANBUS	RS232
UART	SIP	RTP	
Other Skills			
Data Structures Algori		thms	Networking
			Protocols
Verilog Wiresha		hark	Embedded Design

PROJECTS

Cross Platform Web Application

05/2020 - Present

- ◆ Alternated between frontend and backend development duties, fulfilling Full Stack development commitments on the entire project.
- Implemented the use of custom data structures and algorithms to help organize and store data efficiently
- Boosted efficiencies in HTML using Ionic SDK to deliver better overall user experience
- Documented all software development methodologies to be used in future projects.
- Utilized: TypeScript, Angular, Firebase, HTML, CSS/SASS, Ionic, GIT

Python Amazon Price Checker

09/2020 - Present

- Researched new technologies, Python packages and libraries for use in project optimization.
- Employed coding practices based on commonly accepted standards to establish clean, readable code
- Implemented intelligent error catching using try catch blocks to stop unexpected program termination
- Created separate text files to expand the number of email clients and products that can be price checked
- Accurately parsed HTML DOM to find the specified title and price of products

INTERESTS

Jiu-Jitsu Baseball Hiking

Camping