

Steven Peters

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Profile

- Electrical engineer with experience with knowledge of HVAC standards and communication protocols such as Modbus and BACnet
- Experience in digital signal processing, image processing, FPGAs, MATLAB and object-oriented programming languages such as C++ and Java.
- Proficiency in circuit analysis, design and simulation.
- Experience with agile programming in developing Android application
- Possess great leadership skills acquired through managing team projects
- Student leader and VP Finance for 2 consecutive years
- Bilingual FR/EN

Education

Bachelor of Engineering, Electrical 2018

Concordia University, Montréal, QC

Courses: C++, Computer Organization and software, Digital Signal Processing, Digital Electronics, VHDL and Digital Design, Circuit Theory, Digital Communications

College Diploma in Pure and Applied Science 2012

Vanier College, Montréal, QC

Technical Skills

Programming Languages: C++, Assembly, VHDL **Self-taught:** Java, Python, SQL, HTML, CSS

Software Packages: MS Office Suite, Eclipse, Android Studio, Git, PSPICE, MATLAB, KiCad, Visual Studio, ModelSim, Precision RTL, Xilinx ISE

Operating Systems: Windows, Linux

Career Related Experience

Embedded Systems Programmer 2019 - Present

Neptronic, Montréal QC

- Develop software in python that were compatible with Modbus and BACnet protocols

Projects

Banking System (<https://github.com/skp17/BankingSystem>) 2019

- Developed a Linux command line C++ program that simulates a banking system
- Used Doxygen to produce documentation and UML diagrams
- Used Boost libraries for data storage and unit testing, and CMAKE to generate makefiles

Electronic travel aid for visually impaired persons, (Team of 4) 2016

- Designed an electronic system using ultrasonic transducers that detected obstacles 1.5 meters ahead of user and was able to notify the obstacle's exact location
- Defined specifications and ensured compliance through design

- Implemented the software on a Atmega microcontroller needed to run the System
- Conducted design reviews with project stakeholders
- Managed project spending and reimbursements, and produced the bill of materials
- Acquired all necessary resources such as financing and office space for the team, and ensured the project was ahead of schedule
- Coordinated communications with externals

Android Application for outdoorsmen, (Team of 4), (SCRUM Framework) 2015

- Designed an App using Android Studio that processes temperature, pressure, humidity and altitude measured via a Texas Instrument CC2541 Bluetooth SensorTag
- Implemented a SQLite database to store trip information, packing list and journal entries
- Implemented a fitness tracker that processes distance travelled, average speed and calories burnt

Extracurricular Activities

VP Finance 2014-2016

Sustainable Engineering Concordia, Montréal, QC

- Managed the organization's Finances which was about \$1700
- Developed budget, acquired project funding through grant applications, managed spending and reimbursements
- Recruited and trained 4 members in roles such as finance and management
- Continued consulting on budget and management after my departure

Volunteer Experience

Organization Volunteer

Local community organization, Montréal, QC 2016 - present

- Managed the organization's social media and help managed special events

Committee member 2019 - present

Gina Cody School of Engineering alumni chapter, Montréal, QC

- Helped organize events for Concordia students and alumni
- Collected feedback from event attendees in order to improve services
- Promoted and market events

Career Fair Volunteer 2019

Concordia University Career Fairs, Montréal, QC

- Helped employers set-up Wi-Fi as well as company banners and various materials
- Provided support, and responded to enquiries by students and employers
- Collaborated with university staff and security to manage line ups of 700 students
- Requested feedback from employers in order to make improvements to the fair