Steven Peters

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Profile

- 2 years of experience developing software in Python and in C\C++.
- Electrical engineer 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.
- 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**: Python, Java, JavaScript
Software Packages: MS Office Suite, Eclipse, PyCharm, Android Studio, Git, PSPICE, MATLAB,
                KiCad, Visual Studio, ModelSim, Precision RTL, Xilinx ISE
Operating Systems: Windows, Linux

Career Related Experience

Internal Software Developer   2019 - Present
Neptronic, Montréal QC

- Developed software in python that were compatible with Modbus and BACnet protocols for the company's embedded systems and testing departments.
- Worked on a NodeJS module written in C\C++ that provides BACnet/IP communication
- Documentation of software systems (code documentation & user manuals)
- Assisted in conducting technical interviews and assessed candidates' technical skills
- Trained an employee on the best practices in internal software development
- Provided support to various departments and requested feedback for UX improvements

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, etc.
- 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