NEIL GENIEBLA

SKILLS

- **SOFTWARE:**
  - Proficient in C/C++, experience in C# and Python, basic knowledge of Bash Script and Java.
  - Experience in Microsoft Visual Studio and Eclipse IDEs.
  - Operating Systems: Windows XP/7/10, Ubuntu, Arch Linux
- **HARDWARE:**
  - Microcontrollers: Arduino, Raspberry Pi
  - Electronic lab equipment: DMM, oscilloscope, function generator
- **AVID LEARNER:** Always learning and cross-polinating between many different subjects to build a diverse skillset and to think in new and creative ways.

- **TEAM PLAYER/MOTIVATOR:** Maintains a calm, patient attitude in stressful situations and helps members/peers to actuate their potential.

WORK EXPERIENCE

SOFTWARE/HARDWARE DEVELOPER   December 2019 – May 2020
POSH MFG.

- Updated and added new features to software utility, integrating new products to be compatible with it, as well as improving its UI for greater ease-of-use.
- Adapted present microcontroller code to fit inside older and limited hardware, creating a new line of cheaper products to compete inside the market.
- Created documentation of the company's software and development tools to aid future co-op students.
- Fixed many bugs and issues with legacy tools and hardware.

ACADEMIC PROJECTS

REAL-TIME COMMUNICATION PROJECT   September 2021– Dec 2021
EMBEDDED AND REAL TIME SYSTEM SOFTWARE, SFU

- Worked with a partner to create a program that emulates file transfer between two users using C++.
- Used pre-established protocols (XMODEM & YMODEM) as a basis for communication between users.

NEIL GENIEBLA

ACADEMIC PROJECTS

ABNORMAL BREATHING DETECTOR
ENGINEERING, SCIENCE, AND SOCIETY, SFU

Sept 2018 – Dec 2018

- Worked in a team of seven to create an abnormal breathing detector for design lab project.
- Led the software team to create abnormal breathing pattern detection and user-warning system programmed in C and Python respectively.
- Integrated breathing sensor with code using Arduino microcontroller.

PERSONAL PROJECTS

PERSONAL LINUX SETUP
SELF-DIRECTED PROJECT

Dec 2018 – Jan 2019

- Installed Arch Linux with i3 windows manager from scratch.
- Programmed many user scripts and hotkeys using Bash to enhance overall productivity.
- Used Github to track updates and to store backups of previous system modifications.

PERSONAL WEBSITE (NEILGENIEBLA.COM)
SELF-DIRECTED PROJECT

Aug 2019 - Present

- Learned the basics of HTML and CSS in order to create a simple portfolio website.

VOLUNTEER EXPERIENCE

AUDIO-VISUAL ASSISTANT TECHNICIAN
ABUNDANT LIFE SDA CHURCH

Sept 2017 - Present

- Help set-up various pieces of audio and visual equipment, including projectors, sound mixers, and speakers.
- Help train new team members to prepare them for live operations.
- Designing presentations and visuals for special events and holidays.
- In-charge of operating sound and visual systems for presenters during live events.

EDUCATION

SIMON FRASER UNIVERSITY – Estimated Duration: 2018 - 2023

- Bachelor of Applied Science: 4th Year in Engineering Science, Computer Engineering Option