Maria Sottile

4th year Engineering Student with experience in Programming, Data Analysis, and Design

CONTACT

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA
BASc in Engineering Physics
Expected May 2021 | Vancouver, BC

SKILLS

Programming
Python • Java • C++ • C
Platforms
Arduino • IntelliJ • Eclipse
Mechanical
CAD • Mechanical Design • GD&T • Onshape • SolidWorks
General
Problem Solving • Communication • Teamwork

INTERESTS

Beyond my general love of STEM, I am also an improving home-cook and artist.

To keep active, I play futsal with UBC REC, bike to work, and go skiing and hiking.

In my free time I listen to podcasts such as This American Life, and play strategic games like Civilization V.

WORK EXPERIENCE

INSTRUMENTATION ENGINEER - CO-OP
Precision Nanosystems Inc
May - December 2019 | Vancouver, BC
- Wrote software to program customized information to thousands of RFID tags on products—saving manufacturing time
- Redesigned small parts for injection molding on the NanoAssemblr® Ignite™
- Completed data analysis and visualization for multiple experiments using Python

PRODUCT DESIGNER - MECHANICAL CO-OP
SeaStar Solutions
January - April 2018 | Richmond, BC
- Designed and built a test bench for analyzing hydraulic gear pump performance. Integrated a 100A DC power supply, various sensors, and hydraulic components
- Began a five variable Design of Experiment (DOE) to reduce manufacturing costs and time

TEACHING ASSISTANT
UBC Electrical and Computer Engineering Department
September - December 2018 | Vancouver, BC
For CPEN 221 Principles of Software Construction

TECHNICAL PROJECTS

DUET WITH ME
NW Hacks Project
January 2019
- Designed a musical accompaniment web-app with a team of four
- Contributed to back-end development by identifying user commands and running calculations

More information at: `devpost.com/software/duetwithme-fu9y5p`

AUTONOMOUS RESCUE ROBOT
UBC Project Course
June - August 2018
- Designed and built an autonomous robot to compete in an obstacle course
- Programmed two cooperating micro-controllers to control the robot

More information at: `hanyolo-shootsfirst.github.io`

VOLUNTEERING

TUTORING DIRECTOR | Engineering Undergraduate Society
September 2018 - Present | UBC Vancouver, BC
- Organized and ran several tutoring events for first years attended by over 200 students