Nadine Arar

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Summary of Qualifications

- Programming and data analysis experience using MATLAB, Excel, and Python (Numpy, Pandas, Pyplot, Matplotlib).
- CAD modeling skills with SolidWorks developed through coursework, design team and personal projects. (portfolio: www.nadinearar.com)
- Lab experience through course labs such as tensile strength machine, pipetting, electroplating, and soldering.

Projects

Personal Website

Sep 2020 – Present

• Developed a Personal portfolio website by implementing **Adobe illustrator** and **After Effects** alongside **HTML/CSS**. (nadinearar.com)

STM electron Microscope

Feb $2020 - Mar\ 2020$

- Designed an STM machine to be able to measure sustainable tunneling current during Nanotechnology Engineering Design Day by utilizing CAD, circuit design, MATLAB, chemical principles, and machinery throughout the process.
- Awarded the best Teamwork out of 20 groups for our ability to communicate and work effectively.

Transportation Technology Course

Sep 2017 – Jan 2018

- Performed car maintenance procedures such as: changing disc brakes, oil, filters, and tires
- Operated **tools** and **machinery** including a hoist, tire changer, impact wrench, and welder.

Experience

Mechanical and Electrical Team member

Jan 2020 - Present

 $Waterloo\ Rocketry$

- Improved on the propulsion system and the remote launch control system box (RLCS) CAD models using **SolidWorks** to ease the machining and building process.
- Conducted Research in the electrical team finding COTS GPS analyzing their cost and performance.
- Experience in operating procedures of machining equipment (mill, lathe) and processes (cryogenics).

Club Leader

Sep 2016 – Jun 2019

Environmental and Social Justice Club, Father Michael Goetz S.S.

- Coordinated a full day conference hosting hundreds of students around the GTA bringing awareness and promoting change regarding global, societal and environmental issues.
- Analyzed behavioral patterns regarding waste and transportation methods of students resulting in reducing garbage volume by 30 percent and the school's overall carbon footprint.

Education

University of Waterloo

Sep 2019 – Present

Candidate for Bachelor of Applied Science in Honours Nanotechnology Engineering

• Relevant Courses:Structure and properties of Nanomaterials, Nanotoxicology; Nanotechnology Engineering Practice, Introduction to Materials Science and Engineering, Introduction to Computational Methods (MATLAB), Advanced Calculus and Numerical Methods 1 (MATLAB), Introduction to Programming for Engineers (Python).