

# Nadine Arar

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## Summary of Qualifications

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- Languages: Python, Matlab, HTML/CSS, JavaScript.
- **Tools:** SolidWorks (CSWP), Adobe Illustrator, Adobe After effects, Tensile Strength Machine, Pipetting, Soldering, Machine shop, Auto shop.
- **Certification:** Certified SOLIDWORKS Professional, Cryogenic and Compressed Gas Safety, Engineering Student Machine Shop Safety, Worker Health Safety Awareness, WHMIS 2015.

## Projects

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### Personal Website

Sep 2020 – Present

- Developed a Personal portfolio website by implementing **Adobe illustrator** and **After Effects** along side **HTML/CSS**.([nadinearar.com](http://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

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### 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

*Father Michael Goetz S.S Social Justice Club*

- 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

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### University of Waterloo

Sep 2019 – Present

*Candidate for Bachelor of Applied Science in Honours Nanotechnology Engineering*

- Relevant Courses: Introduction to Programming(python), Linear Circuits, Introduction to Computational Methods and Calculus (MATLAB), Introduction to Nanotechnology (wet-lab, SolidWorks).