


# PREET SHAH

Bachelor in Applied Science **Mechanical Engineering**  
2<sup>nd</sup> year, Class of 2021, University of Waterloo

 (403)-926-3099

 p46shah@uwaterloo.ca

 preetshah.me

 linkedin.com/in/preet-shah

 github.com/preetshah123

## SUMMARY OF QUALIFICATIONS

- Obtained **inventory management**, **procurement engineering**, and **quality control** skills by interning at Elite Machining
- Experienced in **AutoCAD**, **SolidWorks**, **GD&T**, **MATLAB**, and **C++** through student design teams and various academic projects
- Programmed event driven embedded system using **C++** and **RobotC** with Lego NXT technology
- Displayed great **leadership** and **teamwork** abilities while participating in successful team related experiences
- Experienced in **HTML5**, **CSS**, **Bootstrap**, **JavaScript**, and **JQuery** through the development of personal webpage
- Seeking a **challenging** internship opportunity that will **leverage** my diverse and technical engineering skills

## WORK EXPERIENCE

### Engineering Intern

Elite Machining Ltd.

May'17 - Aug'17

- Procured precise tools and parts required by the machinists
- Generated programs using TRUMPF Vector Marking Machine to laser mark products based on specifications found on customer drawings
- Organized and managed inventory by pulling parts when needed
- Gained training in Quality Control and creating programs for the Coordinate Measuring Machine
- Exposed to manufacturing environment and processes

### Power Train Team Member

Waterloo Formula Electric Car Team

Oct'16 - Present

- Conceptualized gasket design for the electric motor on SolidWorks
- Trained in the use of milling machines, lathes, and electric saws
- Assisted in setting up DYNO motor testing to determine torque and power output of the electric motor
- Conducted tensile tests to determine carbon fibre configuration with the highest strength to weight ratio

## PERSONAL PROJECTS

### Website Developer

Feb'17 - Present

- Self-taught in HTML5, CSS, JavaScript, JQuery, and Bootstrap
- Utilized Bootstrap and HTML5 to create a responsive personal webpage

### Mechatronic System Designer

Jan'17 - May'17

- Collaborated with four members to program a Lego NXT robot to investigate efficient automation of forklifts in warehouses
- Devised mechanical chassis design of the robot
- Designed and manufactured prototype functional parts using SolidWorks
- Assisted in compiling and debugging code in C++ and RobotC

### Formula 1 Car Concept Design

Dec'16 - Present

- Engineered technical drawings based on design specifications of car
- Enhanced SolidWorks and AutoCAD skills by developing 3D model of car
- Expanded my knowledge of the mechanical chassis design of cars

## ADDITIONAL EXPERIENCE

### Entrepreneur - Junior Achievement

Oct'14 - Apr'16

As President for two companies, I led team meetings, generated reports, assisted in production of prototypes and final products, and ensured positive team morale. Through this entrepreneurial venture, I learned a great deal about the process involved in creating and running successful team projects.

### Volunteer - Youth Central

Sep'12 - May'15

Took part in many different volunteering activities with various community projects around Calgary. This included setting up events and cleaning up once finished, working with children, reading and listening to stories with the elderly, and maintenance of provincial park grounds.

### Volunteer - Calgary Public Library

Nov'13 - Apr'15

Volunteered as a "computer buddy" and helped young children improve their skills in Microsoft Office, typing, and web searching. Also volunteered to help English second language kids with their English skills through organizing games and activities once a week.

## INTERESTS

- Drawing and designing
- 3D Modelling
- Website development
- Formula 1 fanatic, Hockey, Basketball
- Hiking and camping