Ambreen **Visram**

2A Mechatronics Engineering | University of Waterloo

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SUMMARY OF QUALIFICATIONS

- Experience with **mechanical design, GD&T,** and **3D modeling** (SolidWorks, AutoCAD)
- Knowledgeable in **C++** with exposure to **Java, HTML** and **CSS**
- Familiar with **wearable technologies** and **sensors (EEG/EMG)** through Undergraduate Research Assistant position
- Experience with **circuit creation**, **PCBs, soldering** and **Arduino**
- Excels at working **individually** and in a **team environment** as demonstrated through previous projects and co-ops
- Outstanding **communication** and **quick problem solving** abilities exemplified through business case competitions
- Strong knowledge of **Microsoft Office Applications** (Excel, Word, PowerPoint)

PROJECTS

Don't Be Alarmed! July 2017

- Created a pressure sensor alarm using sensors, diodes, transistors, switches and timers
- Manufactured custom PCB and soldered components

Light It Up May 2017

- Designed, prototyped and programmed a traffic light simulator on an Arduino Uno microcontroller
- Integrated LED's and switches to showcase alternating patterns on a breadboard

PongBot Sept 2016 - Dec 2016

- Invented an autonomous robot using extensive C++ and RobotC, NXT sensors, motors and gears to challenge contestants in a target projectile game

WORK EXPERIENCE

Undergraduate Research Assistant- *University of Waterloo* Sept 2017 – Present

- Utilizing mobile sensor systems to diagnose and evaluate neuromotor impairments
- Integrating sensors and wearable technologies to develop sensitive biomarkers targeted to specific populations

University Leader at Engineering Outreach- *University of Waterloo* May 2017 - Aug 2017

- Created a software and electrical engineering camp focused on prototyping, programming and soldering
- Created projects on PCB design, circuits, bread boarding and Arduino
- Taught programming and logic, internet/networking, 3D design software, and applications of technology

Tutor- *Kumon Learning Centers* Sept 2015 - Aug 2016

- Formulated and taught weekly plans to students aged 5-12 using communication and interpersonal skills
- Resulted in a significant improvement in students' academic performance in Math and English

Chapter Executive- *DECA Ontario* Sept 2015 - June 2016

- Coordinated and lead meetings for DECA members; provided and guided extra help sessions to students that proved to be successful and DECA Provincials while demonstrating teamwork and communication skills

RELEVANT COURSES

- **MTE 140-** Data Structures and Algorithms
- **MTE 120-** Circuits
- **MTE 219-** Mechanics of Deformable Solids
- **MTE 262-** Introduction to Microprocessors and Digital Logic

AWARDS AND ACHIEVEMENTS

- Presidents Scholarship of Distinction (95% or above average) - *University of Waterloo* June 2016
- Highest academic average in Spanish – *Sir John A Macdonald Secondary School* June 2016
- Second Place in Google 40Forward Pitch Competition – *Google & University of Waterloo* Aug 2015
- Outstanding Community Service Award (200+ hours) - *Sir John A Macdonald Secondary School* June 2015

Skills: C++, SolidWorks, AutoCAD, MS Office, HTML & CSS, Soldering, Arduino
Interests: Travelling, Piano, Photography, Volunteering
Citizenship: Canadian, American