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## LEANDER MATHISEN

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### EXPERIENCE

#### **Embedded Systems Developer** at University Toronto Robotics Association

Sept 2019 – Present

Member of the SUMO Robotics Team

- Embedded systems design of movement of the robot using Arduino language.
- Utilizing inputs such as Line Sensor, Ultrasonic Sensor to produce output in the motors.
- Basic circuitry and 3D design of parts using SolidWorks.

#### **Research Assistant** at IIT-Delhi

June 2018 – Aug 2018

Detection systems for altered videos and photos with python

- Evaluating methods for altering images/videos through such as taking photos of photos to alter the time of capture. Creating and comparing current systems for the detection of altered videos and the methods on which they operate with Python.

### EDUCATION

#### **University of Toronto** *Toronto, ON*

Sept 2019 – Present

- **Major:** Computer Engineering, B.A.Sc.
- **GPA:** 3.82

#### **Washington International School** *Washington, D.C.*

Sept 2019 – June 2019

- International Baccalaureate Diploma (2019).
- Higher levels in Mathematics, Physics, and Chemistry and Standard levels in Economics, English, and Spanish.

### SOFTWARE PROJECTS

#### **U of T Engineering Questions**

- A website made for U of T engineering students to post their course questions and have them answered by their peers. Utilizes a front-end of HTML/CSS and back-end using Node.js connected to a SQL database.

#### **Shortest Path Calculator and Visualizer**

- Given start, end, and blocks given by GUI a shortest route between start and end points is calculated using A\* algorithm and is displayed on interface using Python.

#### **Virtual Personal Assistant**

- Voice commanded personal assistant. Capabilities of setting, deleting, and showing reminders, getting weather, time, and date and basic country information using Python.

### AWARDS

- **University of Toronto Engineering Dean's List: (2019)** Awarded to students with a high academic standing throughout the duration of the semester with cumulative average above 80%.

### SKILLS

- **Languages:** (*proficient*): Python (*familiar*): Java, JavaScript, HTML/CSS, C/C++
- **Additional:** Node.js, MySQL, Django, PyGame, Tkinter