

# Seif Hassan

Junior Mechanical Engineer

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## EDUCATION

Candidate for B.A.Sc. in **Mechanical Engineering** at **University of Toronto** from **Sep 2015** to **May 2019** (expected)

### RELEVANT COURSES

- **Mechanical Engineering Design**  
Key topics: CAD/CAM in SolidWorks, mechanical parts & mechanisms
- **Materials Science & Laboratory Work**  
Key topics: Properties of materials, material selection
- **Dynamics**  
Key topics: Newtonian mechanics

## RESEARCH EXPERIENCE

**Research Assistant** at the **University of Toronto** from **May 2016** to **Aug 2016** in **Toronto, ON**

- Conducted research on social norms and distracted driving behaviour among teenagers using a cross-sectional study at the Human Factors and Applied Statistics Laboratory
- Manipulated, analyzed and visualized the data set of over 100 participants using data mining tools such as R

## PROJECTS

**2016 Sustainable Design Awards** from **May 2016** to **Jun 2016**

- Utilized CAD to design and prototype a water-saving shower tank that can save thousands of litres of water annually for the average household
- Designed a poster highlighting features of the design and how it works based upon customer requirements

**Noise Abatement and Visual Privacy** from **Jan 2016** to **Apr 2016**

- Designed a fence addition for a client to reduce noise from AC units and increase privacy, with a team of 5 students
- Followed an engineering design process and proposed a noise-blocking barrier and camera-blocking laser system as a solution

**Autonomous Robot** from **Oct 2015** to **Mar 2016**

- Built a Sumo battle robot for the University of Toronto Robotics Association Sumo Competition in a 3-person team
- Designed a CAD model of the robot using SolidWorks and was responsible for implementing the mechanical components

**True Sport Coaching App** from **Feb 2015** to **Jun 2015**

- Created an Android soccer coaching app for True Sport, a sports non-profit organization. The app allows coaches to communicate game strategies and manage their team
- Programmed in Java using the Android Developer Tools for Eclipse IDE

**TechU.me 2015 AppJam Competition** from **Oct 2014** to **Apr 2015**

- Programmed a single and multiplayer Android game that lets you control a cannon to shoot down enemy targets. The app was programmed in Java using the Android Developer Tools for Eclipse IDE
- The app was selected as a finalist by industry judges, and was offered Faculty of Engineering/AppJam scholarship from University of Ottawa

## SKILLS

### LANGUAGES

**Proficient:**

Java • Android • R Programming

**Experienced:**

MATLAB • SolidWorks • Minitab

**Familiar:**

C • JavaScript • HTML • CSS

### TOOLS

Eclipse • RStudio • Git • NetBeans  
IDE • Brackets

## AWARDS

- Dean's List (2015 to Present)
- President's Entrance Scholarship
- 2015 TechU.me AppJam Finalist

## INTERESTS

Traveling • Futsal • Robotics