

SEIF HASSAN

Mechanical Engineering Student

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EXPERIENCE

Research Assistant at Microrobotics Laboratory

Dec 2016 to Present | Toronto, Canada

- Conducted research into the fabrication of magnetically actuated microrobots
- Modified composition of the microrobots to improve their 3D control
- Analyzed experimental results and presented them through written reports

Maintenance Data Analyst at Bombardier Aerospace

May 2017 to Aug 2017 | Toronto, Canada

- Utilized MicroStrategy to build a business intelligence tool and reduce resources required to generate monthly fleet performance reports
- Optimized and deployed web-based dashboards to mobile devices that monitor the reliability performance of the fleets
- Developed an internal tool on MicroStrategy that allows easier distribution and management of dashboards and reports

Research Assistant at Human Factors and Applied Statistics Laboratory

May 2016 to Aug 2016 | Toronto, Canada

- Conducted research on social norms and distracted driving behaviour among teenagers through a cross-sectional study
- Manipulated, analyzed, and presented large datasets from over 100 participants using R and data mining tools

PROJECTS

Modelling and Analysis of a CNC Milling Machine

Sep 2016 to Dec 2016

- Researched mechanical parts and mechanisms to design a 3-axis CNC Milling Machine in a 6-person team
- Designed the CNC Milling Machine assembly in SolidWorks

Research and Design of a Noise Abatement & Visual Privacy Improvement

Jan 2016 to Apr 2016

- Designed a privacy system that reduces noise from air conditioners by up to 85% and blocks cameras infringing on privacy
- Researched the human/environmental impact and conducted a cost assessment

Mechanical Design of an Autonomous Sumo Robot

Oct 2015 to Mar 2016

- Built an autonomous battle robot that can detect other robots using sensors and push them out of the ring in a 3-person team
- Created a 3D CAD model in SolidWorks and used various tools to drill, cut and machine sheet metal to build a lightweight robot

EDUCATION

Candidate for B.A.Sc. in

Mechanical Engineering at

University of Toronto

Sep 2015 to May 2019 (expected)

Streams

Mechatronics

Solid Mechanics and Design

Relevant Courses

Mechanics of Solids (MIE222)

Mechanical Design (MIE243)

Manufacturing (MIE221)

Materials Science (MIE270)

SKILLS

Mechanical Design

SolidWorks

Engineering drawing and sketching

Machine Shop

Lathe

Mill

Drill Press

Band Saw

Hand Tools

Modeling and Programming

MATLAB

Java

R

MicroStrategy

Minitab

INTERESTS

Robotics

Futsal