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)

Cumulative GPA of 3.79/4 (84.95%)

Streams
Mechatronics
Solid Mechanics and Design

Relevant Courses
Mechanics of Solids
Mechanical Design
Manufacturing
Materials Science

SKILLS

Mechanical Design
SolidWorks
Engineering drawing and sketching
Cambridge Engineering Selector

Machine Shop
Lathe
Mill
Drill Press
Band Saw
Hand Tools

Modeling and Programming
MATLAB
Java
R
MicroStrategy
Minitab

INTERESTS

Robotics
Futsal