

Mario Luigi

Mechatronics Engineering Co-op Student

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Education

September 2015 - Present

Bachelor of Mechatronics Engineering | McMaster University, Hamilton ON

- Currently in level 3 of a 4-year Mechatronics Engineering co-op program
- Received Higher Education Award for GPA above 75% for multiple years
- Strong communication, organization and time management skills developed through course work
- Excellent teamwork and leadership abilities developed while working on multiple group projects

Relevant Course Work

- Engineering Computation
- Dynamic Models and Control of Physical Systems
- Software Development
- Principles of Programming
- Embedded Systems Design I and II
- Operating Systems
- Signals and Systems

Experience

March 2017 – Present

Vice President Academic | McMaster Engineering Society, Hamilton ON

- Initiated the restructure of undergraduate math courses including the teaching structure of MATLAB
- Improved leadership skills by advocating on behalf of 5000 McMaster engineering students
- Work with 4 executive team members to strategically plan and oversee a \$700,000 yearly budget
- Directly supervise the McMaster Engineering Competition which increased sponsorship by \$9,000 from the previous year

June 2015 – March 2017

Retail Associate – Sports Department | Canadian Tire, Hamilton ON

- Demonstrated leadership skills through the organization of various activities for young hockey players
- Exhibit positive attitude and encouraged young hockey players to reach their full potential through skill development
- Corrected emerging habits of young hockey players to improve technique

Projects

February 2017

Prosthetic Hand Design

- Worked on a team of 4 to design, document, and 3D print a gear train as the operational mechanism of a hand prosthesis
- Presented the final product with a dynamic simulation video and demonstration of the printed prototype

October 2016

Pacemaker

- Researched, developed and tested a real-time safety critical system through the team-based project of creating a pace with a functional device control module using MATLAB Simulink and Visual Basic

Skills

Software:

- C, C++
- Python
- Java
- HTML
- MATLAB
- Autodesk Inventor
- Arduino

Testing Equipment:

- Oscilloscopes
- Function Generators
- Multimeters

Safety:

- WHMIS Trained
- Standard First Aid