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Payton Tanguay

Highlights of Qualifications

- Currently enrolled in level 4 of the 4-year Mechanical Engineering co-op program
- Capable of multi-tasking to meet deadlines in a fast-paced work environment
- Comfortable developing creative mechanical solutions and presenting them to team members
- Able to work both autonomously and as part of a highly cohesive team to meet collective goals

Education

Bachelor of Engineering, Mechanical Engineering
McMaster University, Hamilton ON

- Achieved a cumulative GPA of 3.7/4.0 across all completed semesters
- Recipient of the Dalvi Family Scholarship for proven leadership, a commitment to volunteerism, and an admission average of 97%

Relevant Courses

Mechanical Engineering Measurements
Engineering Economics
Electrical Circuits & Power



Thermodynamics
Static and Mechanics of Materials
Design Communications

Experience

Mechanical Design Engineer (Co-op student)
Evertz Microsystem Ltd., Burlington ON

- Completed a total co-op work term of 8 months during the summers of 2016 and 2017
- Met all project deadlines when using Solid Edge to research, plan, and design electro-mechanical enclosures for projects exceeding \$500K in budget
- Showcased adaptability and initiative during last minute design changes by other departments
- Interpreted more than 50 design drawings to solve manufacturing process problems and estimate project costs

Venture Camp Instructor

McMaster University, Hamilton ON

- Practiced strong interpersonal and leadership skills while having to adapt STEM camp curriculum to children with varying accommodation needs
- Exercised patience and compassion as the mediator for conflict resolution between campers
- Adhered to safety procedures set out by McMaster University for working with lab equipment, resulting in no injuries or issues during the activities

Extracurricular Activities

McMaster Solar Car Project

McMaster University, Hamilton ON

- Utilizes precision and accuracy in the calculation of measurements needed for the design and manufacturing (CAD/CAM) of Gen VII's carbon monocoque chassis
- Guarantees design efficiency by communicating and troubleshooting issues in Unigraphics

FIRST Robotics Mentor

St. Mary's High School, Hamilton ON

- Guided a team of 10 secondary school students in their use of AutoCAD and programming languages (Java, C++, Python) to produce a competitive robot

Projects

Autonomous Vehicle Design

- Collaborated in a team of 4 to design and construct a plant floor self-driving vehicle aimed at decreasing the amount of manual labour required to deliver materials on an assembly line
- Improved SolidWorks and CNC machining skills throughout the design and construction processes



Engineering
Centre for Career
Growth & Experience

Master Key App & Device

- Created a voice-to-action app and device with Ruby, JavaScript, HTML5, and CSS that allows communication between a mobile app and a device installed over doorknobs
- Demonstrated attention to detail throughout the data modelling, GD&T, coding, and design phase of the app and device's development
- Asked by the Dean of Engineering to enter the 'Apps that Matter' Competition sponsored by Microsoft in Victoria, B.C.
- Placed in 3rd place provincially and 6th place nationally

Skills

Laboratory:

WHMIS Certified	Milling, Lathe Drill
Standard First Aid	Press
Machine Stop	3D Printing
Trained	Soldering
Radiation Safety	
Trained	

Software:

Solidworks	Java
Autodesk Inventor	C++
MATLAB	
AutoCAD	
Python	