

DAVIS HEPPENSTALL

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HIGHLIGHTS OF QUALIFICATIONS

- Currently enrolled in level 4 of an integrated 4.5-year McMaster University and Mohawk College Bachelor of Engineering Technology program
- Manufacturing laboratory experience preparing metal samples for hardness and tensile testing using Vickers hardness testing and Rockwell testing machine
- Automotive laboratory experience in disassembling and taking measurements, for wear testing using feel gauges, telescoping gauges, and Vernier calipers
- Excellent teamwork and leadership skills developed as a Team Member of the CAD Club
- Gained valuable communication skills through compulsory business and management courses in the Bachelor of Technology program

EXPERIENCE

LINAMAR CORPORATION

Guelph, ON
May – Aug 2017

MECHANICAL ENGINEER CO-OP

- Assisted in the implementation of a new product line producing drive and driven gears for Honda by creating and building a database for documentation
- Performed capability and gage R&R studies using Minitab and Excel to identify process changes that must be made to meet customer specifications
- Implemented safety documentation on new machines through lockout placards and standardized work instruction for each machine operation
- Documented all Scientific Research and Experimental development hours for 20 Honda team member's weekly

AVTEK PRODUCTIONS

McMaster University
May – Aug 2016

ASSISTANT PROJECT MANAGER

- Collaborated with stakeholders across McMaster University to coordinate production requirements for various events during the Welcome Week
- Managed an inventory of 2,000 items (i.e., audio and visual equipment) for large-scale production requirements
- Scheduled a team of 30 members and managed crews during event set up, operations, and teardown
- Designed a database to manage employee information and equipment inventory

EDUCATION

MCMASTER UNIVERSITY

Hamilton, ON
Class of 2019

BACHELOR OF TECHNOLOGY, AUTOMOTIVE & VEHICAL ENGINEERING TECHNOLOGY

- Achieved a cumulative GPA of 3.7/4.0 across all semesters
 - Upon completion, will receive:
 - Bachelor of Technology Degree (McMaster University)
 - Automotive Engineering Technology Advanced Diploma (Mohawk College)
- Business Management Certificate (Mohawk College)

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PROJECTS

ELECTRONIC AUTO COOLING SYSTEM

Grade Received: A

- Programmed a HCS12 microcontroller in C to control the rotational speed and direction of a DC motor (PWN), and a stepper motor based on temperature sensors and user inputs

MACHINING & 3D PRINTING

Grade Received: A-

- Utilized SolidWorks to design a full set of chess pieces
- 3D printed the pieces and attached them to manually lathed bases
- Created CAD parts from 2D engineering drawings and designed toolpaths using MasterCAM to mill parts

WEAR TESTING

Grade Received: A-

- Took apart a Chevrolet Cobalt engine and two transmissions (manual & automatic) and took appropriate measurement using feeler gauges and calipers to determine wear

SKILLS

- Excellent understanding of computer programming such as **C, C++, CSS, Java** and **Visual Basic**
- Developed **analytical** skills through **hardness testing** and investigating material properties
- Automotive **technical** and **organizational** skills in disassembling and reassembling an engine, in addition to automatic and manual transmissions
- Proficient with **AutoCAD, CarSim, Minitab, MATLAB,** and **SolidWorks**

EXTRACURRICULAR ACTIVITIES

FUEL TANK DESIGNER

McMaster University
2017 – Present

MAC FORMULA ELECTRIC

- Manufactured the fuel tank of a formula race car
- drafted and maintained the 2D and 3D drawings
- Improved knowledge of the development of green and hybrid vehicle components

TEAM MEMBER

McMaster University
2016 - Present

CAD CLUB

- Improved CAD skills, design skills and exercised creativity by taking on new projects
- Advanced teamwork skills by assisting and working closely with other members

STUDENT REP

2016 – Present

BACHELOR OF TECHNOLOGY ASSOCIATION

- Support B.Tech students looking for assistance with homework and social engagements within the Bachelor of Technology community

TRACK RUNNER

2016 – Present

MCMASTER MEN'S CROSS COUNTRY/DISTANCE TRACK TEAM

- Awarded McMaster's Male Athlete of the week of March 12, 2017
- Placed silver at the U SPORTS 2017 Championships in Windsor