

SUMMARY OF QUALIFICATIONS

- Designing using SolidWorks, AutoCAD and GD&T; manufacturing with Mastercam
- Programming in Python, Java and C++; used control theory to compensate for non-ideal systems
- Project management experience: Microsoft Office, creation of BoMs, & Gantt charts
- Use of Unix systems, MATLAB & Microsoft Windows OS

RELEVANT EXPERIENCE

Main Organizer & Co-Founder October 2017-Present
Robot in 3 Days Team Ontario Ontario

- Distributed comprehensive documentation of the final robot, the design and the strategy process, along with reflection on the initial Gantt chart and BoM
- Programmed, prototyped & assembled a competitive base robot so other teams can be inspired
- Communicated with & discussed merits of candidates to create a competitive robotics team

Junior Manufacturing Engineer, Co-op April 2018-August 2018
Electrical Contacts Limited Hanover, ON

- Gathered data & created planning documents using Excel so that information is easily retrieved
- Consulted affected parties by approaching operators and calling meetings after autonomously collecting information
- Designed and manufactured parts and assemblies using Vernier, SolidWorks & Mastercam

Member September 2017-February 2018
UW Robotics Team University of Waterloo

- Co-designed & co-programmed a winning robot which played sound based on the line it followed
- Designed a robot drivetrain for traversing a saline environment in 3D space

Design & Strategy, and Electrical Lead 2013-2017
Kinetic Knights Robotics (FIRST Robotics Competition Team 781) Kincardine, ON

- Reduced robot mass to 80% of typical 120 lbs by optimizing layout with SolidWorks and Design for Manufacturing & Repairability
- Worked with other leaders to debug Java, co-lead move to Git, mentor & develop strategies
- Used Gantt chart & BoM to manage time, stay under budget, & follow design plan

EDUCATION

Honours Mechatronics Engineering, Co-op (BASc) 2017-2022
University of Waterloo Waterloo, ON

CERTIFICATIONS & AWARDS

SHAD Fellow July 2017
Schulich Leader Nominee April 2017
Diplôme d'études en langue française (Niveau B2) May 2017