Brendan Arciszewski

SUMMARY OF QUALIFICATIONS

- Designing with SolidWorks, AutoCAD and GD&T; manufacturing with Mastercam
- Programming in C++; used control theory with IMUs, vision system to model non-ideal systems
- Managing projects: using Microsoft Office, creating BoMs and Gantt charts
- Using *nix systems, regex, MATLAB and Microsoft Windows

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 and built a competitive base robot to inspire high-school FIRST teams
- Recruited candidates after analysing their skillsets to create a competitive robotics team

Junior Manufacturing Engineer, Co-op

April 2018-August 2018

Electrical Contacts Limited

Hanover, ON

- Gathered data and created planning documents using Excel so that information is easily retrieved
- · Consulted operators and led meetings with management to determine the best path forward
- Worked independently to discover process issues, then implemented solutions with colleagues
- Designed and manufactured parts and assemblies using vernier, SolidWorks and Mastercam

Member

September 2017-February 2018

UW Robotics Team

University of Waterloo

- Co-designed and co-programmed a winning robot to play tones based on a line's grayscale values
- Designed a robot drivetrain for traversing a saline environment in 3D space

Design & Strategy, and Electrical Lead

2013-2017

2017-2022

Kinetic Knights Robotics (FIRST Robotics Competition Team 781)

Honours Mechatronics Engineering, Co-op (BASc)

Kincardine, ON

- Reduced robot mass to 80% of typical 120 lbs by optimizing layout with SolidWorks and DFM
- · Worked with other leaders to debug Java, co-lead move to Git, mentor and develop strategies
- Used control theory with OpenCV, encoders and IMUs to control drivetrains and shooting systems
- Used Gantt chart and BoM to manage time, stay under budget and follow design plan

EDUCATION

University of Waterloo CERTIFICATIONS & AWARDS	Waterloo, ON
Schulich Leader Nominee	April 2017
Diplôme d'études en langue française (Niveau B2)	May 2017