

JORDAN SAVAGE

Mechanical Engineering MSc Student | EIT

University of Waterloo

+1(905)-334-2995

ja2savag@uwaterloo.ca

PROJECTS AND ACHIEVEMENTS

- Designing a soft robotic wearable posture correction system to aid individuals in postural rehabilitation.
- Lead a team of 20 students to write a scientific research paper with the University of Saskatchewan (<https://www.biorxiv.org/content/early/2017/10/18/205112>).
- Received work evaluations of “outstanding” and “excellent” for five consecutive co-op terms.
- Member of the winning team for the 2016 Best Business Plan award at the SHAD cup.
- Airframe Design Engineer for WatFly and Mechanical Co-Lead of the Powered Arm design team.
- University of Waterloo WEEF Council representative (2017-2022).

EDUCATION

University of Waterloo,
Waterloo ON
Master of Applied Science (MSc)
Candidate

University of Waterloo,
Waterloo ON - 2022
Bachelor of Applied Science
(BAsc), Mechanical Engineering,
With Distinction and Dean's
Honours.

Appleby College,
Oakville ON - 2017
High School Diploma with
Distinction in Global Leadership;
Silver Duke of Edinburgh Award,
Graduation Average of 94%

KEY SKILLS

-SolidWorks
-Soft Robotics
-Additive Manufacturing Design
-Blacksmithing
-Photoshop and Illustrator
-Arduino Programming,
MATLAB, C++,
Excel VBA, RobotC, Bash
-Static Finite Element Analysis
-Circuitry Troubleshooting
-Laser Cutting
-General Machining Capability

PROFESSIONAL EXPERIENCE

2020 Sept-Dec & 2018 Sep-Dec
Hardware Engineering • Dejero Labs

- Designed and reworked CAD files for a new product called the Galiano.
- Conducted qualification tests on replacement components and new products.
- Designed, prototyped, and built testing equipment to mimic heat distribution and cooling in a future product.
- Prototyped and created a 3D printable hinge-based jig to conduct product repairs quickly and safely in the field.

2019 May-Sept & 2020 Jan-May
Mechatronics Engineering • e-Zn Inc.

- Conducted SolidWorks static FEA on Zinc reactor components.
- Optimized the design of mechanical systems to reduce friction and binding during motion, in turn reducing motor power consumption.
- Automated reactor data analysis by writing VBA macros.
- Played key role in construction and prototyping of Zinc reactors.
- Completed SMT and through hole soldering of reactor master boards.
- Converted two desktop power supplies into lab power supplies.
- Coded a reactor discharge test scheduling system in C#.
- Designed and created Arduino load banks for regular discharge of reactors.

2018 Jan-April
Parts Coordinator • Ropak Packaging

- Designed and implemented a new stock room organizational structure that included a database consisting of several thousand unique parts and an associated storage location identifier.
- Created a safety data sheet database for every chemical in the factory.
- Assisted in repairing and maintaining molds for injection molding machines and an automated guided vehicle.