

Hailin Wang

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Education

University of Toronto

Bachelor of Applied Science in Engineering Science | Expected graduation: 2022 | President's Scholar of Excellence

- Culminative GPA: 3.51 | Deans Honour roll: Fall 2018, Winter 2019 |
- Relevant coursework: Structures and Materials CIV102, Computer algorithms and data structures CSC180, Electrical circuits ECE159, Digital and computer systems ECE253, Engineering math and computation ESC103

Skills

Software and programming:

Prototyping: 3D printing, Pneumatics, Metalworking, woodworking, electronics systems, Engineering Design Process

Languages: English, native | Chinese, fluent | French, conversational

Experiences

Haver and Boecker | Electromechanical Technician

North-Rhine-Westphalia, Germany | May – August 2019

- Implemented **CAD programming tools** to increase the efficiency of producing machined metal parts by **25%**
- Assembled over **30 pneumatic systems** for large industrial machinery according to **professional standards**
- Expanded warehouse storage capabilities by **prototyping** a stainless-steel storage unit using high precision welding and sheet metal bending techniques

Hatch Ltd | Geotechnical Projects Intern

Niagara Falls, Ontario | Aug – Sep 2017

- Developed intranet website using **Microsoft Sharepoint** to streamline **internal project management** and portfolios
- Used **Microsoft office 365** and word to collaborate globally on revitalizing marketing and promotion materials
- Collaborated with 4 interns to update produce 60+ updated project descriptions in-line with, client engagement, marketability
- Applied **HTML** and **CSS** to company website to **modernize** layout and organization of project gallery.
- Digitized blueprints of large-scale concrete and spillway systems with **AutoCAD** for use in future projects

Projects

UofT Biomed case study competition, Grand Prize Winner

September 2016 - May 2018

- Grand prize winner of case study competition hosted by the University of Toronto Club for Biomedical Engineering
- Led a 4-person team in developing an accessibility spoon to prevent harm to children suffering from ultra sensitivity to heat resulting in a **15% increase in stakeholder independence**
- Applied an iterative engineering design process to implement novel shape-memory polymers into design

Mechatronics Mobility Device, National Bronze medal | Award of Excellence

September 2016 - May 2018

- Won multiple awards: for entrepreneurial spirit, ingenious usage for resources, engineering design, PEO incorporation of technology and a bronze medal at the **Canada Wide Science fair**
- Created affordable mechatronics mobility device to improve maneuverability for debilitated and elderly persons
- **Facilitated consultation** with therapists at Hotel Dieu Shaver hospital to optimize an ergonomic, user-focused design
- Used **Autodesk Inventor** and **FEA simulation** to approximate strains and stresses to evaluate long term feasibility
- Integrated movement assisting capabilities with **Arduino C++**, motor controllers and custom **3D printed components**

Interests

- Rowing — CSSRA Rowing Championships 2016,2017,2018 | Head of the Charles International Regatta
- Basketball — UofT Intramural Basketball League | Southern Ontario Champions
- Cooking | Music production | DECA provincial Finalist | Skills Canada CAD Design