

Matt Wulff

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Skills

Excel, Keynote, Microsoft Office, Negotiation, Sales, DFM, Manufacturing, Python, C/C++, Jira, SolidWorks, Catia, Autodesk Inventor, AutoCAD, 3D Printing, Prototyping, Product Design

Education

McMaster University

Bachelor of Mechatronics Engineering (Co-op)
Engineering Award Of Excellence Scholarship
GPA: 3.4/4.0

Present
Ontario, Canada

Experience

Tesla

Manufacturing Engineering (Body In White)

September 2023 – August 2024
California, USA /
Guangzhou, China

- Developed a vision guided robotic solution to line loaded parts **every 10 seconds** with **savings over \$250k** per component used, every year
- Worked with six vendors to develop a cost effective washer by means of 3 trials and design meetings which allowed me to **reduce the cost by \$125k** and size by over **50%**
- Led the investigation into utilizing fast, force-sensing robots to deburr castings more efficiently and cost-effectively. Collaborated across departments to procure testing equipment, manage vendors, and conduct trials

Skygauge Robotics

Product Design

May – September 2023
Ontario, Canada

- Spearheaded the design of a waterproof drone case capable of protecting sensitive drones from 2 meter plus impacts
- Lead the design and construction of an acoustic chamber for drone testing and QA, **reducing decibel levels by 20%**
- Accelerated drone production by optimizing fixtures, creating detailed documentation, and developing enhanced procedures
- Automated drone levelling using code and laser levels, achieving a **cost savings of ~ \$300 per drone** over its lifetime

2Ri Robotics

Engineering Technician

July – August 2022
Ontario, Canada

- Problem solved robotic arm failures while devising and implemented **cost effective repair** solutions
- Manufactured thousands of industrial cables for Fanuc in highly efficient manor, helping them solve their supply shortages during covid
- Operated technical PM's on robots in running factories to deduce downtime and facilitate high OEE

3D Alive

Founder and Lead Designer

2019 - 2021
Ontario, Canada

- Operated a small 3D printing and engineering consulting business to provide clients with accelerated, low cost solutions
- Secured clients cost-effectively by utilizing free platforms and strategically sharing my website on key forums frequented by the target audience

Personal Projects

Robotic Arm

- Designed and built three robotic arms from scratch using off-the-shelf components, culminating in a fully autonomous, wirelessly controlled final design

Eloquently App

- Developed a fully functional IOS app to help users develop their communication skills through the use of AI

Popsicle Stick Bridge Competition

- Designed and constructed a popsicle stick bridge that weighed less than 1kg and carried over 1300kgs by utilizing the geometry of A-frames