

# Matt Wulff

289.698.5356 | matthewdwulff@gmail.com | LinkedIn | Portfolio  
McMaster University, Bachelor of Mechatronics Engineering (Co-op)

## Skills

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*DFM, Manufacturing, R&D, Product Design, 3D Printing, SolidWorks, Autodesk Inventor, AutoCAD, Embedded Systems, Electrical Design, Python, C/C++, Project Management, Jira, Excel, Microsoft Office, Keynote, Negotiation*

## Experience

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### Tesla

*Manufacturing Engineering and TPM*

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 through 3 trials and design meetings, reducing 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, collaborating 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 impacts over 2 meters.
- Led 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 by devising and implementing cost effective repair solutions.
- Manufactured thousands of industrial cables for Fanuc in a highly efficient manner, helping resolve supply shortages during COVID.
- Operated technical PMs on robots in active 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 by utilizing free platforms and strategically sharing my website on key forums frequented by the target audience.

## Personal Projects

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### Robotic Arm

Designed and built three robotic arms from scratch using off-the-shelf electrical/mechanical components, culminating in a fully autonomous, wireless controlled final design.

### Automated Compound Pharmacy

Developed an automated system to streamline the compounding process in pharmacies using motors, 3D printing, and high-precision industrial equipment, all controlled with a touch-screen interface.