JULIAN AWAD

(613)-806-2681 ◇ julian.awad@queensu.ca
github.com/JulsAwad ◇ www.linkedin.com/in/julian-awad

TECHNICAL SKILLS

Software	LabVIEW, SolidWorks, Autodesk Inventor, PSIM, MS Access
Engineering	Technical Report Writing, FDM 3D Printing, Technical Drawings
Programming	MATLAB, Python, SciPy, C, Git, LaTeX, HTML & CSS
Languages	English, French (Native Bilingual)

ENGINEERING EXPERIENCE

Engineering Intern - Department of National Defense May 2020 - September 2020
ADM(Mat) - DSVPM 4-5

- Parsed and presented important information from data sheets for 411 vehicles in 69 variants
- Reworked a purchase description in English and French based on feedback from multiple military bases
- Proofread English-to-French translations of contracts to ensure accuracy and correctness

PROJECTS

Co-Founder, PolyTwist Designs November 2015 - Present
www.polytwist.xyz

- Co-founded a small business designing and manufacturing twisty puzzles using 3D Printing and SolidWorks
- Sold over $13,000 of 16+ products at live events and through our online shop over three years
- Worked with a manufacturer to mass-produce a product, from the design stages to manufacturing through injection molding and packaging design
- Responsible for the in-house production line from start to finish, product design, website development and upkeep, and sales through our online shop and in-person events.

Hyperloop Model Design September 2019 - December 2019
APSC100 Design Project

- Designed, built, wired and programmed a 1:36 scale prototype of a hyperloop powered by an Arduino
- Member of a group of 4 students, where I took on a leadership role
- Created mathematical models to model chassis stress, energy loss, and total power consumption
- Wrote a detailed feasibility analysis of a Hyperloop route between Windsor and Quebec City, taking into account social, economic, environmental and legal implications of Hyperloop transportation

OTHER WORK EXPERIENCE

EngLinks Physics Tutor September 2020 - Present
Queen's Engineering Society

- Led a 3h Physics Workshop for 20+ students breaking down key concepts and exam-type questions
- Edited the tutoring material with richer content to better teach the material being tested

EDUCATION

Faculty of Engineering, Queen's University Class of 2023

- Candidate for Bachelor of Engineering Physics, Mechanical Stream
- Dean's List with Honours (GPA above 3.7)