

JULIAN AWAD

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TECHNICAL SKILLS

Manufacturing	FDM 3D Printing, Product Design, Packaging, QA control
Software	SolidWorks, Autodesk Inventor, LabVIEW, PSIM, MS Office Suite
Programming	Python, SciPy, MATLAB, C, Git, LaTeX, HTML & CSS
Languages	English, French (Native Bilingual)

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
- Responsible for the entire in-house 3D printer production line, product design, quality assurance, website development and upkeep, and sales through our online shop and in-person events.
- Featured at events such as World MakerFaire 2017 and Maker Festival promoting the Maker movement
- Worked with a manufacturer to mass-produce a product, from the design stages to manufacturing through injection molding and packaging design

Hyperloop Model Design September 2019 - December 2019

- Designed, built, wired and programmed a 1:36 scale prototype of a hyperloop powered by an Arduino
- Responsible for the design and manufacturing of the chassis using FDM 3D-printing
- 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

WORK 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

EXTRACURRICULARS

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)