

JULIAN AWAD

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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

TECHNICAL SKILLS

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

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
- 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
- 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

- Designed, built, wired and programmed a 1:36 scale prototype of a hyperloop powered by an Arduino
- 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

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 of 3.75)