

JULIAN AWAD

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Clearances Held: NATO Secret ◇ Controlled Goods Program

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ENGINEERING EXPERIENCE

Lockheed Martin - Hardware Engineering Intern

May 2021 - August 2021

Rotary Missions Systems - CSC Project

- Performed detailed Solidworks FEA Analysis to validate equipment to Military Standard 901D
- Created an Excel VBA Program to generate Shock Response Spectra from an Impulse Function for Shock & Vibe Testing, which is now regularly used across the CSC Project
- Performed detailed make-vs-buy analysis on electronics enclosures, resulting in an overall 2x cost reduction and 4x time savings
- Created and presented a Whitepaper detailing the Thermal, Ingress Protection, Shock Resistance, Safety, and Maintenance considerations of mounting locations for electronics enclosures

Department of National Defense - Engineering Intern

May 2020 - September 2020

ADM(Mat) - DSVPM 4-5

- Documented and presented key specifications on Armored Patrol Vehicles for 411 vehicles in 69 variants
- Reworked procurement documents based on technical requirements from multiple military bases
- Proofread English-to-French translations of contracts to ensure accuracy and correctness

TECHNICAL SKILLS

Software	SolidWorks, LabVIEW, Autodesk Inventor, PSIM, MS Access
Engineering	FDM 3D Printing, Technical Report Writing and Drawings
Modeling and Analysis	SolidWorks FEA, SciPy Mathematical Modeling
Programming	MATLAB, Python, SciPy, 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
- Made over \$20,000 in sales 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.

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)