

# JULIAN AWAD

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## TECHNICAL SKILLS

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<b>Software</b>	SolidWorks, Autodesk Inventor, LabVIEW, PSIM, MS Access
<b>Engineering</b>	FDM 3D Printing, Technical Report Writing and Drawings
<b>Modeling and Analysis</b>	SolidWorks FEA, SciPy Mathematical Modeling
<b>Programming</b>	MATLAB, Python, SciPy, C, Git, LaTeX, HTML & CSS
<b>Languages</b>	English, French (Native Bilingual)

## ENGINEERING EXPERIENCE

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**Lockheed Martin - Hardware Engineer Intern** May 2021 - August 2021  
*Rotary Missions Systems - CSC Project*

- Performed detailed Solidworks FEA Analysis to validate equipment to the Military Standard 901D
- Created an Excel 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, Igress Protection, Shock Resistance, Safety, and Maintenance considerations of mounting locations for electronics enclosures
- Security Clearances Held: Controlled Goods Program, NATO Enhanced Reliability

**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

## PROJECTS

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**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

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**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)