

# JULIAN AWAD

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## WORK EXPERIENCE

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### 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

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

## 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
- 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

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### 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

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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 of 3.75)