

JULIAN AWAD

(613)-806-2681 ◇ julian.awad@queensu.ca

TECHNICAL SKILLS

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|---------------------------------|--|
| Software | Microsoft Access, Microsoft Excel, Database Administration |
| Design and Manufacturing | SolidWorks, FDM 3D Printing, DFM, DFA |
| Programming | Python, C, MATLAB, LaTeX, HTML & CSS |
| Networking | TCP/UDP Protocols, Network Config, Linux/Unix, FTP |
| Languages | English, French, Spanish |

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

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

First Year Project Coordinator September 2019 - May 2020
Queen's Engineering Society

- Working with Engineering Tutoring Service (EngLinks) to establish an efficient Tutor Feedback solution
- Increased Feedback response rate by implementing a more efficient mailing system
- Helped organise workshop sign-ins and overall setup and take-down

EDUCATION

Queen's University 2019 - 2023 (Projected)

- Candidate for Bachelor's in Engineering Physics, Mechanical Stream
- Dean's List with Honours (GPA of 3.75)