

JULIAN AWAD

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OBJECTIVE

Engineering Physics student with proven teaming ability, strong learning skills, and an interest in astrophysics. Seeking a research assistant position in Star Formation to apply physics knowledge and technical skills in programming to work with a cutting-edge team of researchers.

TECHNICAL SKILLS

Software	LabVIEW, SolidWorks, Autodesk Inventor, PSIM
Engineering	FDM 3D Printing, Technical Report Writing, Technical Drawings
Programming	MATLAB, Python, LaTeX, C, Git, 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 over 3.7)