

# MATTEO GOLIN

COMPUTER SYSTEMS ENGINEERING STUDENT

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## EDUCATION: B.ENG COMPUTER SYSTEMS, CO-OP OPTION

Carleton University, Ottawa, ON

2nd Year Standing | 11.8/12.0 CGPA | Anticipated Graduation Year: 2025

- Awarded the Henry M Tory scholarship for admission average of 93%, renewed each year for a high CGPA
- Invited to the Golden Key International Honour Society for academic performance within the top 15% of computer systems engineering students
- Recipient of Dean's List recognition for maintaining a CGPA of 11.8 in 2021-2022

## COMMUNICATION SKILLS

- Fluent in English, French (B2) and Russian (B1), with a French immersion certificate
- Effectively managed three other engineering students in a design project for a library database, dividing tasks, co-authoring reports and unit testing code contributions, resulting in a grade of A+
- Authored a technical report for a non-technical audience on the usage of object-oriented programming in smart home security systems, resulting in a grade of A+

## TECHNICAL SKILLS

- Won the CENG-C Programming Competition in November of 2022 by developing the best rendition of a forest regrowth simulation with a Flask and React web app
- Developed a Python script to perform internal force calculations during a truss structure group design project, reducing error and streamlining parameterized calculations
- Implemented C data structures and concepts learned from my imperative programming course within a simple graphics program which displays a cube in two different projections

## WORK EXPERIENCE: MULTIMEDIA & WEB EDITOR

Charlatan Publications Inc., Ottawa, ON | May 2022 - Present

- Designed and launched ecommerce website for the publication which provided an additional income stream
- Developed and presented an SEO optimization workshop to staff, resulting in higher search engine rankings
- Articulated troubleshooting instructions to staff who encountered technical difficulties, resulting in significantly faster workflow during high-volume publishing periods
- Automated weekly poll posting and newsletter design & delivery using Selenium and the WordPress REST API, allocating 70% more time to work on additional projects for the publication

## PROJECT: CUINSPACE GROUND STATION

Carleton University InSpace Rocket Engineering Design Team | Ottawa, ON | September 2022 - PRESENT | Repository

- Developed a JavaScript React dashboard to display real-time telemetry data parsed by a Python backend and transmitted via websocket, allowing flight monitoring and data collection for future flight analysis
- Coordinated development on the ground station user interface, including task delegation, merging pull requests, authoring contribution guidelines and assisting new team members, resulting in the largest team member retainment in the avionics subteam in the last 3 years
- Presented the design and architecture of the ground station frontend and backend software to a team of professors and alumni during the CUInSpace Preliminary Design Review, resulting in specific and effective feedback which was implemented to improve the ground station design
- Authored external and inline documentation for the Ground-Station UI code, allowing new team members to easily familiarize themselves with the existing codebase, as well as gaining additional points for future Spaceport and Launch Canada competitions