Daniel Hyman

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About Me:

Creative and driven Systems Engineering student, with a passion for Robotics and Embedded Systems. Seeking co-op Engineering opportunities to apply CAD, programming, and design experience and solve real world problems.

Technical Skills:

Software: SolidWorks, AutoCAD, OnShape, KiCAD
Languages: C++, Python, Java, Javascript, C, HTML
Platforms and IDEs: Git, Arduino, STM32cube, VS Code
Frameworks & Libraries: Django, Flutter, Leaflet, React

Education

BEng in Engineering Systems and Computing (Co-op), *University of Guelph* — Expected Grad: Spring 2029

- Courses: Engineering Design, OO-Programming, Mechanics, PCB Design, Electricity & Magnetism

Projects

Trackify | JavaScript, HTML, CSS — Jun 28 - 29 2025

- A simple and powerful **Chrome Extension** for creating and managing notes directly from any browser, implementing the **Chrome Storage API** for local data saving
- Designed for researchers to efficiently capture and recall relevant website text and attach personal pointers

Weather Safety Application | JavaScript, Python, Django — Jun 28 - 29 2025

- Built a full stack **Django** web app with REST API endpoints and geospatial logic(GeoJSON, Shapely) to help track friends' locations and disaster zones in real-time
- Integrated **Leaflet.js** and **Kontur Disaster API** to visualize live maps, manage friends' locations, and implement proximity alarms

Messaging Server | Java — Jan - Feb 2025

- Developed a multi-client messaging application, using **object oriented design**, unique user IDs, and unlimited simultaneous connections
- **Engineered** server functionalities by implementing threads, stream readers/writers, and the Socket, SocketServer and HttpServer classes to support team collaboration and group chats

Zumo Bot Competition | C++, Arduino — Dec 2024

- Developed a **100% Autonomous** robot as a team of 3 in a University tournament, designed to detect and push other opponents out of an arena, given a 3 hour limit, finishing **2nd** out of 20
- Programmed the Ultrasonic and infrared sensors to charge at other robots when 15 cm away, as well as detect and avoid the arena boarder
- Designed and implemented a model, detailing how the sensors and mechanical parts come together onto the Zumo Bot, considering mass, size, balance, and the optimal weapon size

Automated Vehicle | C++, Arduino — Oct - Dec 2024

- Collaborated in a team of 5 Engineers of different disciplines to design, construct, and program a **100% Autonomous** Car for a teddy bear, equipped with a course-navigation system, automated trash launcher, and user safety system, using household items and a meccano kit,
- Oversaw **C++ Arduino** vehicle logic and debugging, electrical circuitry to different sensors and components, and designed sketches of the model as a whole
- Overcame all predefined challenges including: Navigating the course, throwing trash over a 30cm wall and into a bin, and carrying **2 kg** of load up a ramp

Work Experience & Leadership

Logistics Assistant — Sept 2022 - June 2024

- Managed and Organized Documents, as well as Prepackaged Products for unique client orders in a timely fashion
- Used Excel, scanners, and Microsoft Teams to keep track of orders and products

Mentor Executive — Nov 2023 - June 2024

- Directed a **Mentorship program** for all incoming grade 9 students, involving social and academic support groups, as well as many events such as grade 9 day and leadership night, receiving high praise
- Adjusted and adapted resources to different events, and ideas based on monthly feedback, ensuring the most meaningful first year of high school

French Elementary Teacher Assistant (Volunteer) — Oct 2023 - May 2024

- Assisted French Immersion students with reading, pronunciation and comprehension
- Helped tailor lesson plans, and organize teacher documents