

Ethan Huber

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Technical Skills

Programming Languages: C, C++, C#, Go, Java, JavaScript, HTML/CSS

Development Tools and Frameworks: Git/Github, IntelliJ, VSCode, Linux/Unix, Docker, SQLite

Design and Planning Tools: OnShape, Fusion 360, KiCad, Solidworks, AutoCAD, Xilinx ISE

Personal Projects

Filedex - Semantic file search engine // Jul 2025 – Sep 2025

github.com/zushiEdu/filedex [🔗](#)

- Implemented a semantic file tagging system using Go and SQLite, enabling keyword-independent search
- Implemented a Breadth-First Search traversal to search the graph tag structure
- Optimized LLM prompt accuracy through iterative testing and manual evaluation

Circuit Layout Creator // Apr 2023 – Jul 2023

github.com/zushiEdu/circuit-layout-creator [🔗](#)

- Developed a web-based circuit layout editor used by peers to visualize and share perforated board designs
- Integrated user feedback from 10+ testers to improve UI and add features

Education

Bachelor of Engineering, Computer Engineering (Co-op)

Sept 2024 – May 2029 (Expected)

University of Guelph

Guelph, Ontario

- Currently maintaining an 86% average, dean's honors list recipient for the winter 2025 semester
- Relevant courses include: Intro to OOP (96%), Intro to Programming (87%), Engineering Analysis (98%)

Key academic projects:

- Gryphon Management - University Management System (Feb 2025 - Apr 2025):
 - Led UI development for a Java Swing university management system built in IntelliJ
 - Implemented Git version control workflows to manage contributions across a 5-member team

Technical Extra-Curricular Experience

Electrical Team Member

Sept 2025 – Present

University of Guelph Robotics Team

Guelph, Ontario

- Used KiCad to lead the design and creation of the power distribution board to be used on the rover
- Created safety documentation for the power distribution board

Frame Team Member

Sept 2024 – Present

Gryphon Racing

Guelph, Ontario

- Designed motor controller mounts in SolidWorks, performing finite element analysis (FEA) to evaluate structural strength across design variants
- Developed 3D printed jigs to streamline and improve the accuracy of the frame fabrication
- Model mounting tabs and front body panel components to support subsystem integration and assembly efficiency

Vice President

Sept 2022 – Jun 2024

Huron Heights Secondary School Robotics Club

Kitchener, Ontario

- Developed a rule book to guide the development of robots for battle-bots teams
- Researched, managed, and purchased parts for the club
- Gave presentations on design and safety
- Mentored students to aid with design and decision making
- Developed an Arduino battle-bot based on the famous Tombstone robot ([OnShape CAD File](#) [🔗](#))

Work Experience

Process Control Team Member

May 2025 – Present

Toyota Motor Manufacturing Canada

Cambridge, Ontario

- Ensure timely movement of vehicles off the assembly line, ensuring efficient workflow and on-time process completion
- Prepare vehicles for shipping by installing owner's manuals and applying shipping labels, maintaining excellent quality with 19 defect catches demonstrating meticulous attention to detail