

# Jack McWilliams

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## EDUCATION

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*University of Minnesota, College of Science and Engineering*  
**Bachelor of Science, Computer Science**

*Minneapolis, MN*  
May 2025

GPA: 4.0

## SKILLS

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**Technologies:** CVAT, Docker, Git/GitHub/GitLab, NumPy, Systemctl, WSL

**Programming Languages:** C/C++, Python, x86-64 Assembly, OCaml, Java, Make, Bash

## WORK EXPERIENCE

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*Interactive Robots and Vision Lab, University of Minnesota TC*

*Minneapolis, MN*

**Undergraduate Research Assistant**

January 2024 – Present

- Label data using CVAT for image recognition via neural networks
- Lead the development and deployment of lab task automation on Unix systems

*Sappi North America*

*Cloquet, MN*

**Desktop Support Intern**

May 2023 – August 2023

- Diagnosed and helped solve end-user issues, for mill operators and office clients
- Compiled documentation for new bugs arising during software/hardware deployment

## PROJECT EXPERIENCE

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**UMN Drone Delivery Simulation**

April 2024

- Designed and implemented the metric-collecting subsystem of the simulation
- Coordinated work between group members using Git and Jira

**HackUIowa, TransitPal**

October 2023

- Collaborated with a team to build a web app to track trips and encourage public transit usage
- Contributed to website layout design using Next.js

## LEADERSHIP / ACTIVITIES

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*Tau Beta Pi UMN*

**Community Service Officer**

April 2024 - Present

- Plan and execute volunteering ventures around the city for TBP members
- Promote TBP's core values and representation through service and community outreach

*SubZero Robotics (FRC)*

*Esko, MN*

**Strategy/Programming Team Leads**

January 2019 – May 2022

- Developed robot-specific C++ codebases on top of the WPI Robotics Library
- Defined team-wide goals and saw through their execution into the competition season

