

# Ethan Osmundson

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## Education

**University of Minnesota – Twin Cities**  
Master of Science, Computer Science

May 2024

**University of Minnesota – Twin Cities**  
Bachelor of Arts, Computer Science, with High Distinction  
Minor in Statistics

Graduated May 2023  
GPA: 3.93

*CS Coursework:* Intro. Machine Learning; Data Visualization; Intro. Artificial Intelligence; Practice of Database Systems; Algorithms and Data Structures; Parallel Computing; Software Engineering

*Statistics Coursework:* Regression and Correlated Data; Design and Analysis of Experiments; Nonparametric Methods

## Experience

**Data Science Intern** – Boston Scientific

May 2023 – Aug. 2023

- Explored image augmentation techniques to improve the accuracy of classification models used to validate thousands of medical devices per month
- Designed and executed experiments to compare the efficiency and performance of a variety of neural network architectures on visual inspection tasks

**Firmware Engineering Intern** – Boston Scientific

May 2022 – Sep. 2022

- Developed an embedded C simulation of a pump driver and pressure sensor to be used for automated firmware testing on an upcoming implantable urology product
- Developed C# Windows application for firmware validation using RTT, SPI, and I2C technologies
- Communicated results cross-functionally with team members from various disciplines

**Director of Operations & Co-President** – UMN Solar Vehicle Project

June 2021 – May 2022

- Managed operational and financial aspects of a \$250k/year student engineering organization with 50 active members
- Maintained strong relationships with corporate sponsors and University administrators
- Managed logistics for a cross-country solar vehicle race during the 2021 American Solar Challenge

**Undergrad Teaching Assistant** – UMN Dept. of Computer Science and Engineering

Sep. 2021 – Dec. 2021

- Graded and provided constructive feedback on Python programming assignments
- Worked to establish a positive and inclusive learning environment for all students

## Projects

### Stock Data Chatbot

A Discord chatbot which provides stock data and charts to users. Built using Python and various REST APIs.

### Internet Chatroom

A chat software built using C sockets and POSIX threads. The chatroom included features such as direct messages and multiple concurrent users. Developed as a requirement for a networking course.

### Drone Search and Rescue

A virtual drone search-and-rescue simulation built using C++, OpenCV for image processing, and Docker for containerization. Developed in a team of four as a requirement for a software design course.

## Skills

**Languages:** Python; C; C#; R

**Tools:** Docker; TensorFlow/Keras; Git; Linux; Visual Studio Code; RStudio; GDB

**Other:** Public Speaking; Leadership