Emmet Spaeth
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Education

University of Connecticut	Storrs, CT
Bachelor of Science and Engineering, Computer Science and Engineering	May 2029

Related Courses: Fundamentals of Computing I & II, Data Structures & Algorithms, Calculus I & II   GPA: 4.0
Achievement: Presidential Scholar, Honors Scholar

Technical Skills

Computer: Excel, Onshape (CAD software), Window Subsystem for Linux (WSL), Bash, PowerShell, Linux
Programming Language: Java, Python, Rust, HTML, CSS
    Familiar with: Shell/Bash scripting, PowerShell scripting, Lua, Apps-Script
Tools: Git Version Control, Make, Cargo, GitHub

Relevant Projects

Neural Network Playing Poker

Without prebuilt machine learning libraries, the AI learned to play a version of Texas Hold'em Poker at a six-person table.

- Created a linear algebra library for machine learning
- Used the neural network architecture for machine learning
- Created a genetic based training algorithm with scores defined by a fitness function

2025 Robotics Team Codebase

A full robot, written using state machine architecture to compete in the FRC 2025 challenge.

- Developed and debugged the codebase on a physical robot
- Created the state machine implementation used from scratch to replace the command-based paradigm
- Automated the robot's controls to accomplish its tasks with only three buttons on the controller
- Optimized competitive use of the code to become sixth best in the world for the goal we specialize in.

Leadership Positions

Robotics Team Captain   2023-2025

- Won the 2024 robotics state championship and were finalists at the 2025 robotics state championship
- Doubled the size of the team both years through greater community involvement and outreach
- Coded and wired the whole robot during the building phase and drove the robot during the competitions
- Mediated communication between the different departments while building the robot and ensured the robot remained on schedule to be done by competition
- Built a positive team culture with conflict resolution, encouraging curiosity over trying to appear smart, and showing respect for our opponents through leading by example.

Track and Cross Country Captain   2024-2025

- Ran at the 2024 and 2025 state championships for track and cross country
- Led the team to 2 conference championships and had 4 conference championship runners up trophies
- Worked with my co-captain to create a training schedule and coached younger runners on the team

Work Experience

Metropolitan District Commission	Hartford
Summer Intern	July-July 2023

- Was a part of a team, installing and configuring new phone system for headquarters office
- Digitized physical records into cloud database
- Reviewed GIS data for storm drain cleaning records

UConn Summer Bridge Program
Student

- Took prep courses for the fall semester over the five-week program
- Went on tours of engineering companies such as The Cigna Group, Medtronic, Synchrony
- Developing professional and academic skills through faculty speakers.