

Henry Latt

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Education

University of Connecticut, B.S.E in Computer Science & Engineering and Robotics Engineering

Expected May 2029

Skills

Programming Languages: Python, Java, C++, C, Lua

Web & UI Development: React, Dart, HTML, CSS, JavaScript, TypeScript, Figma, Adobe Illustrator

Hardware & Prototyping: Arduino, CAD (OnShape), 3D Printing, Soldering

Platforms & Tools: Linux, Windows, Claude Code, Cursor/Visual Studio Code, GitHub/Git

Work Experience

Student Laboratory & Field Analysis Assistant, UCONN School of Computing – Storrs, CT

January 2026 – Present

- Maintain BGPpy, an open-source Python BGP security simulator used by NIST and research teams worldwide.
- Improve projects using BGPpy and contribute & publish research papers that evaluate BGP attacks and defenses.
- Implement Python optimizations to BGPpy's topology, event, and simulation modules to improve performance.

Makerspace Assistant, UCONN Innovation Zone – Storrs, CT

September 2025 – January 2026

- Maintain the Makerspace, a space for students to design and build projects with any tools and materials they need.
- Assist peers with any questions they have about the Makerspace, or any tools such as 3D printers and laser engravers.
- Explore and learn new technologies and skills to ensure safe, reliable operation of all equipment.

Projects

Capstone Project

August 2024 – July 2025

Dermato

<https://henrylatt.com/projects/dermato>

- Developed a Python app to identify and classify skin lesions using the HAM10000 dataset to detect cases of skin cancer.
- Applied data analysis and machine learning techniques to identify & improve classification accuracy and model reliability.
- Designed a clean, user-focused interface to communicate medical insights and resources effectively.

ASPIRE Project

August 2024 – January 2025

Googly Eyes

<https://henrylatt.com/projects/mechatronics>

- Led a team of 5 to build and program an animatronic robotic assistant using Arduino (C++) and OpenAI Whisper (Python).
- Designed and assembled the robot using custom-made parts 3D-printed with Bambu Labs printers.
- Integrated computer vision and servo systems for facial tracking and a microphone for voice recognition and response.

Student Groups

UConn First – Student Organization

September 2025 – Present

Member

<https://uconnfirst.com>

- Collaborate with FIRST alumni to organize and run FIRST Tech Challenge and FIRST LEGO League events across CT.
- Connect with engineers and professionals in the FIRST community to build connections and share expertise.

FIRST Robotics Competition – Team 178, “The 2nd Law Enforcers”

September 2021 – June 2025

Head of Digital Media and Public Relations

<https://farmingtonrobotics.org>

- Led a team of 4 to design and produce team branding and logos using Adobe Illustrator (shirts, flags, and banners).
- Secured \$20,000+ in sponsorships and grants through professional outreach, proposals, and events.
- Collaborated with engineers and mentors to promote STEM engagement for kids through FIRST Lego League.

Certifications

- [GIAC Foundational Cybersecurity Technologies \(GFACT\)](#)