Ludvig Fellstrom

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY **Expected Dec 2027**
Bachelor of Science, Electrical and Computer Engineering

Relevant Courses: Computer Systems Programming, Digital Logic and Computer Organization, Introduction to Circuits for Electrical and Computer Engineers, Introduction to Operations Research

PROFESSIONAL EXPERIENCE

Ghost Social, San Francisco, CA, *AI Engineering Intern* **Jun 2025-Present**

- Developed components of the AI networking platform that transformed voice-agent profiles into pre-event matches.
- Improved the AI voice-intake pipeline by implementing NLP preprocessing in Python, enhancing transcription
- Tuned recommendation models for higher accuracy AI matching under real-time event constraints

LEADERSHIP EXPERIENCE

CUSail, Cornell University, *Machine Shop Lead* **Sep 2024-Sep 2025**

- Machined sailboat components using CNC and laser cutting, optimizing performance for competition
- Designed modular components using SolidWorks, integrating mechanical and electrical systems

Merrill Family Sailing Center, Cornell University, *Sailing Instructor* **Sep 2024-Aug 2025**

- Instructed a group of five aboard 18-ft keelboats in navigation, sail trim, and safety protocols, enhancing their seamanship and teamwork skills
- Taught fundamental and advanced sailing techniques, including boat handling and navigation

RESEARCH EXPERIENCE AND PROJECTS

Body Heat Harvesting to Power Medical Wearables, ZT Group, *Undergraduate Researcher* **Jul-Aug 2025**

- Fabricated and tested thermoelectric device prototypes, measuring voltage/current output from heat differentials
- Designed low-power circuit architectures integrating organic TE materials with storage and sensor modules

Fungal Microclimate Regulator, *Independent Project* **May-Aug 2025**

- Built ESP32-based control system integrating DHT11 and MH-Z19B sensors with relay/MOSFET drivers for real-time temperature, humidity, and CO_2 regulation.
- Programmed C/C++ firmware for real-time sensor polling, PID humidity loops, and OLED status display
- Implemented ThingSpeak telemetry and GitHub Pages dashboard for remote sensor monitoring and visualization

CAMPUS INVOLVEMENT

Institute of Electrical and Electronics Engineers, Cornell University, *Member* **Aug 2024-Present**
Chi Psi Fraternity, Cornell University, *Member* **Jan 2025-Present**
ECO Collective, Cornell University, *Member* **Aug 2024-Present**

ADDITIONAL EXPERIENCE

Finger Lakes Reuse, Ithaca, NY, *Retail Assistant* **Aug-Dec 2024**
ESS Group, Ystad, Sweden, *Restaurant Server* **June-Aug 2024**

SPECIALIZED SKILLS

Programs: Python, C, C++, LTspice, Verilog, Adobe Illustrator, AutoCAD, Solidworks, ArcGIS, and Machining
Languages: Swedish (fluent); Spanish (intermediate)