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, *Business Development Intern* **Jun-Aug 2025**

- Analyzed voice-intake data with Python and SQL to recommend enhancements, boosting match accuracy by 10%.
- Forged strategic partnerships with local startups and community organizations, securing sponsorships and co-marketing agreements that boosted brand visibility
- Planned and executed four regional networking events, increasing participant engagement by 20%

LEADERSHIP EXPERIENCE

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

- Machined sailboat components using CNC and laser cutting, optimizing performance for competition
- Designed modular PCB components using SolidWorks, focusing on integration between mechanical and electrical systems

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

- 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

Tracing Enterococci in Septic Systems, The International Seakeeper Society, *Researcher* **Jun-Aug 2023**

- Modeled the correlation between septic systems and enterococci levels in local waterways with GIS software
- Developed Python pipelines to parse and normalize state septic-tank permit databases, integrating tank locations with enterococci sampling for spatial correlation analysis.

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

- Built ESP32-based control system with DHT11 sensors and relay/MOSFET drivers to regulate tent temperature and humidity
- Coded C/C++ firmware for real-time sensor polling, PID humidity loops, microSD logging, and OLED status display

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, Adobe Illustrator, AutoCAD, Solidworks, ArcGIS, and Machining
Languages: Swedish (fluent); Spanish (intermediate)