

Spencer Hadlock

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EDUCATION

Cornell University | College of Engineering

Bachelor of Science in Electrical and Computer Engineering | GPA: 3.66

George & Marie Zahakos Scholarship

Ithaca, NY

Expected: May 2027

State University of New York: Westchester Community College

Associate of Science in Liberal Arts and Sciences: Mathematics and Science | GPA: 3.92

Graduation With Highest Distinction, Phi Theta Kappa Honor Society

Valhalla, NY

May 2024

ENGINEERING EXPERIENCE

Nexus Project Team

Electrical Subteam Member

Ithaca, NY

September 2025 – Present

- Design custom PCBs used for power distribution and processing sensor data using the Altium Designer suite
- Collaborate with mechanical/software subteams to ensure that designs will integrate properly and supply the proper data
- Record work completed using team wiki page to be used by future team members and create deliverables on progress

FIRST FTC Robotics

Team Lead

Cross River, NY

September 2021 – June 2023

- Led a 12-member team to the World Championship; set goals, managed design timeline, and kept the build on schedule
- Fabricated custom parts using Fusion 360 design and various processes such as CNC milling, 3D printing and laser cutting
- Implemented odometry system in hardware and code for autonomous localization in addition to PID and vision software

PROFFESIONAL EXPERIENCE

Lewisboro Electrical Services

Apprentice Electrician

South Salem, NY

June 2020 – Present

- Install and upgrade residential and commercial electrical services in accordance with National Electric Code and blueprints
- Engage with general contractors and other skilled trades to coordinate timely completion of projects and avoid interference
- Program and install lighting control solutions using Lutron Designer Pro, in HomeWorks and RadioRA 3 systems

Assistant Bookkeeper

August 2024 – Present

- Reconciled bank and credit-card statements in QuickBooks each week, clearing variances and resolving discrepancies
- Support accounts payable and inventory control by posting material invoices and tracking material usage and van stock
- Generated and sent customer invoices for services, applied payments and deposits, and followed up on past-due accounts

Academic Support Center

Science Tutor

Westchester Community College, NY

November 2023 – June 2024

- Tutored chemistry, biology, and physics in 1:1 and small groups; helping students to learn concepts or complete homework
- Designed study plans for community college students of diverse backgrounds balancing work and family responsibilities
- Met with science department chairs to make sure techniques and goals aligned with the coursework and WCC curriculum

Cornell Outdoor Education

Climbing Instructor

Ithaca, NY

August 2025 – Present

- Coach classes of 15-20 beginner climbers, teaching basic skills and techniques with simple demos and on-wall guidance
- Adapt lessons to different comfort levels, building confidence and encouraging students using challenge by choice principles
- Plan semester goals and lessons with co-instructors and outdoor education program directors to align learning outcomes

VOLUNTEER EXPERIENCE

South Salem Fire Department

New York State Certified Interior Firefighter

South Salem, NY

June 2021 – Present

- Respond to roughly 400 community calls per year for fire emergencies, vehicle accidents, gas leaks, and service lifts
- Completed 3 NYS Division of Homeland Security and Emergency Services trainings including Hazmat, BEFO, IFO
- Conduct regular apparatus, equipment, and SCBA checks to ensure operational readiness for all fire and rescue responses

Boy Scouts of America

Eagle Scout, Senior Patrol Leader

Lewisboro, NY

June 2016 – June 2023

- Planned and led weekly meetings, campouts, and service projects; mentored younger scouts on skills and advancement
- Coordinated community outreach with local schools and nonprofits organizing service days and community events
- Achieved Eagle Scout rank by designing and managing a capstone community service project to improve trail accessibility

SKILLS & INTERESTS

Skills: Altium, Fusion 360, SolidWorks, OnShape, CNC milling, MATLAB, Python, C++, Java, Verilog, and Microsoft Office

Interests: Rock climbing, Skiing, Fishing, Speed cubing, Clash Royale, Hiking and Backpacking, and Cooking