Natalie Brown

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Detail-oriented electrical engineering master's student at UNH seeking a future in wireless telecommunications engineering, but also passionate about computing, automotive engineering, and rapid prototyping.

EDUCATION

University of New Hampshire - Durham, NH

M.S.Eng. in Electrical Engineering **Expected Graduation: May 2025**

B.S. in Electrical Engineering **Graduated: May 2024**

Minor in Mechanical Engineering Cumulative GPA: 3.84

- Magna Cum Laude
- George F. & Lina C. Fisher Scholarship Recipient

RELATED COURSEWORK

- Applications of Integrated Circuits
- Biomedical Instrumentation
- Control Systems
- Introduction to VLSI
- Signals and Systems
- Wireless Communication Systems

TECHNICAL SKILLS

Software: SolidWorks, MATLAB, C, Cadence Virtuoso, SPICE
Hardware: 3D printer operation and maintenance, Soldering
Industry Knowledge: Power over Ethernet standards and testing, Technical document writing, Prototyping, Troubleshooting

PROJECTS

Phased Array for Duplex Communications on the 2m and 70cm Bands **May 2024**

Senior Project, University of New Hampshire

- Designed and built a phased array antenna system for duplex communication with amateur radio
- Gained hands-on experience with antenna theory and RF systems

RELEVANT WORK EXPERIENCE

UNH InterOperability Lab (IOL) - Durham, NH **May 2024 - Present**

Power over Ethernet (PoE) Technician - IOL II

- Communicate with national client companies to discuss testing procedures and results
- Test PoE equipment to verify compliance with IEEE and Ethernet Alliance standards
- Develop, review, and execute test plans for PoE devices
- Analyze test results to identify and troubleshoot issues, ensuring interoperability of PoE systems

ADDITIONAL EXPERIENCE

Cuffy's of Cape Cod - Dennis, MA **June-August 2019 - 2023**

Retail Associate

- Optimized product placement in the general store section
- Coordinated tasks and responsibilities with a team of over 100 employees
- Assisted customers in finding sizes and styles