Dean Nelson

Research Engineering Intern

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STRENGTHS

Team Collaboration
Promoted synergy within project teams, becoming a trusted collaborator and resource.

Effective Communicator
Articulated complex ideas clearly in presentations, fostering engaging discussions.

Adaptable Problem Solver
Tackled challenges in projects, refining approaches until successful resolutions emerged.

Detail Orientation
Ensured comprehensive documentation and precision in technical reporting, benefiting future work.

Continuous Learner
Utilized every experience as a growth opportunity, expanding technical and personal skill sets.

SKILLS

Python | MATLAB | C | C++ | LabView | RF Design | Documentation | Team Collaboration | Signal Processing | Integration Testing | Embedded Systems | Technical Presentation | Data Analysis | Experimental Design | Communication Skills

LANGUAGES

English — Native

Spanish — Intermediate

SUMMARY

Current Electrical Engineering student passionate about technologies in software development and hardware integration. Experience from academic projects showcases teamwork and a hands-on approach. Designed prototypes integrating RF technologies, created documentation, and presented findings effectively. Developed algorithms using Python and MATLAB, contributing innovative solutions that resonate with project goals. Ensure clarity in communication while collaborating with peers and senior leadership on technical challenges. Ready to bring fresh ideas to Innovative Tech Solutions and contribute meaningfully.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Pittsburgh | GPA: 3.8 | 2027 | Pittsburgh, PA

Coursework: *Signal Processing, Digital Logic, RF Hardware, Software Development*

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, MATLAB, LabView
- **Signal Processing Tools:** MATLAB, Python
- **Testing Methodologies:** Unit Testing, Integration Testing
- **Embedded Systems Platforms:** Arduino, Raspberry Pi, FPGA
- **Documentation Standards:** IEEE, APA, MLA
- **Project Management Tools:** Trello, Asana, Microsoft Teams
- **Collaboration Tools:** Zoom, Slack, Google Workspace
- **Version Control Systems:** Git, GitHub, Bitbucket
- **Operating Systems:** Linux, Windows, macOS
- **Circuit Design Tools:** LTspice, Altium Designer, Eagle

EXPERIENCE

Capstone Project Developer

University Project | January 2026 - Present | Pittsburgh, PA

Lead a team creating a prototype smart communication system utilizing RF technologies. Collaborate on design, programming, and testing to ensure effective integration. Manage thorough project documentation for faculty evaluation, maintaining high organization standards.

- Designed software algorithms with Python and MATLAB for data analysis applications.
- Created comprehensive documentation for internal reviews and final presentations.
- Presented innovative findings to industry professionals, receiving positive accolades.
- Collaborated closely with teammates for troubleshooting and refining system capabilities.
- Conducted performance tests to validate system compliance against initial specifications.
- Fostered an environment of problem-solving and creativity throughout the project.

Student Lab Assistant

University Project | September 2025 - December 2025 | Pittsburgh, PA

Contributed to lab-based projects to develop embedded systems geared towards real-time data acquisition. Engaged actively in software debugging and research compiling, demonstrating solid analysis skills.

MY CAREER

- Capstone Project Developer at University Project (7 Months)
- Student Lab Assistant at University Project (3 Months)
- Research Assistant at Academic Research (3 Months)

- Assisted in programming and debugging systems using C and LabView in laboratory settings.
- Maintained meticulous records of processes and contributions toward lab publications.
- Participated in weekly updates to faculty, honing explanation and presentation skills.
- Supported fellow students with circuit design insights during educational lab sessions.
- Collaborated on experiments analyzing RF systems and understood data outcomes.
- Enhanced practical learning experiences through direct engagement with technical tasks.

Research Assistant

Academic Research May 2025 - August 2025 Pittsburgh, PA

Conducted extensive literature reviews on various signal processing techniques, delivering findings effectively to faculty and contributing to publications. Supported experimental designs and simulations enhancing quality research outputs.

- Reviewed literature on signal integrity issues and communicated results clearly.
- Assisted in experiment designs focusing on signal fidelity under diverse conditions.
- Developed MATLAB simulation models predicting system responses for analyses.
- Collaboratively prepared papers aimed at peer-reviewed journals for increased visibility.
- Managed timelines efficiently, promoting adherence to project milestones and communication.
- Compiled data summaries contributing vital insights for comprehensive reports.

LEADERSHIP & AWARDS

- Dean's List, University of Pittsburgh, Spring 2025, Fall 2025
- First Place, University Hackathon Challenge, 2025

CERTIFICATIONS

- Python Programming Certificate 2026
- MATLAB Fundamentals 2026

PROFESSIONAL AFFILIATIONS

- Member, Electrical Engineering Society, University of Pittsburgh
- Volunteer, STEM Outreach Program, 2025-2026

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST