

# Dean Nelson

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## 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

2027

University of Pittsburgh GPA: 3.8

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

## SKILLS

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

## EXPERIENCE

### Capstone Project Developer

January 2026 - Present

University Project

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

September 2025 - December 2025

University Project

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.

- 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

May 2025 - August 2025

Academic Research

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

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST