

Pratik Ojha

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Summary

I am a sophomore dual major in Electrical Engineering and Physics with a strong foundation in both theoretical concepts and practical applications. My interests focus on the intersection of hardware systems and advanced physics, particularly in quantum technologies, applied electromagnetics, and experimental research.

Education

University of New Mexico

Aug 2024 - May 2029

Bachelor of Science in Electrical Engineering & Physics (Dual Major)

Albuquerque, NM

- **Achievements:** Cumulative GPA: 3.89/4.00
- **Coursework:** Calculus III, Physics III, Programming Fundamentals (C programming), Object-Oriented Programming (C++), Circuit Analysis I, Computer Logic Design, Modern Physics, Circuit Analysis-II, Instrumentation
- **Upcoming Coursework:** Signal & System, Electronics-I, Materials & devices,

Work Experience

Image Processing Engine (C)

Aug 2024 – Dec 2024

- Developed a CLI-based image processor in C to manipulate bitmap headers and pixel data.
- Implemented algorithms for grayscale conversion and box blur using raw pointer arithmetic and dynamic memory allocation.
- Optimized file handling to process high-resolution images with low latency.

UNM IT Technologies Department

Aug 2025- Present

Student Computer Consultant I

- Provided technical support and troubleshooting for both Windows and Mac platforms in labs and classrooms. Ensuring a seamless production environment.
- Managed IT ticketing system (help.unm/Cherwell) to resolve hardware and software issues, including imaging and system updates.
- Led recruitment, training, and supervision of computer consultants, coordination staffing and scheduling for multiple computer labs.
- Oversaw setup and maintenance of PCs, computer labs, and classrooms while managing lab security protocols and conducting routine IT repairs

Private Home Tutor

April 2024- July 2024

Self-Employed | Jhapa, Nepal

- Provided one-on-one tutoring to a high school student who had previously failed core subjects, including Physics and Mathematics.
- Designed customized lesson plans and used real-world examples to clarify complex concepts.
- Helped the students pass both subjects in the supplementary exam, boosting their academic confidence.

Skills

- **Programming and Tools:** MATLAB, C, C++, Python, Qiskit
 - **Operating Systems:** Windows, macOS, Linux
 - **Productivity & Software:** Excel, Google sheet, Microsoft word, Photoshop, PuTTY, LabVIEW
 - **Soft Skills:** Problem Solving, Teamwork, Communication, Time management, Critical thinking, Decision making
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