

PARTH AMIT RAVAL

Scranton, PA

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Personal Portfolio Website

EDUCATION

The University of Scranton

Bachelor of Science in Electrical Engineering

- GPA: 3.77/4.00

Scranton, PA

Graduation Date: May 2028

RELATED COURSEWORK

Computer Sci 1 • Calculus III • Foundations of Engineering • Circuit Analysis • Power Electronics and Solid State Devices • Elements of Physics I & II • Digital Signal Processing • Electronic Circuits • Logic & Computer Design

RELATED EXPERIENCE

NASA L'SPACE Mission Concept Academy

Electrical Engineer - Payload Specialist

Remote

Summer 2025

- Virtual NASA workforce preparation academy dedicated to teaching space mission concept formulation through science, engineering, programmatic, and teaming skills.
- Demonstrated knowledge by following the NASA mission life cycle, up to submission of a Preliminary Design Review, for a robotic space mission to Mars.
- Attended and engaged in weekly lectures taught by NASA scientists, engineers, and managers.
- Led the design of a spacecraft to carry out the mission's science objectives, specifically the development of the Electrical Power subsystem and professionally presented design.
 - o Researched similar mission's architecture for any heritage subsystems that could be utilized to increase the design's confidence.
 - o Performed trade studies between subsystem architectures to determine which would best satisfy the mission's science objectives while maintaining awareness of the mission's design constraints for mass, power, cost, and schedule.

The Institute

Research Intern

Scranton, PA

Summer 2023

- Wrote a research article on data similarities between college major enrollment rates in specified institutions.
- Utilized the U.S. Census Database to create five tables containing a variety of data, such as demographics, employment, and population growth for 14 Luzerne County boroughs.

Hayes Physics Competition University of Scranton

Volunteer

Scranton, PA

Spring 2025

- Volunteered at the annual physics competition at the University of Scranton for high-school students. Specifically, helped out in the collisions and conservation of energy section of the competition.

PROJECTS

- Programmed, tested, and ran a raspberry-pi controlled micro mouse through a maze using five different sensors for a capstone project.
- Developed a web-based ISS telemetry dashboard using JavaScript, HTML, and CSS that displays real-time data, interactive graphs, embedded stat widgets, and includes a custom distance calculator using the Haversine formula.
- Personal Portfolio Website - HTML, CSS, JavaScript.

SKILLS

Software: Git, GitHub, Microsoft Suites (Excel), Google Workspace, MATLAB, Spyder IDE, Adobe Express, Maple, LT Spice, and VS Code.

Languages: Java, Python, JavaScript, HTML, CSS, MATLAB, GD Script, F#