

Meerav Shah

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EDUCATION

The Pennsylvania State University

College of Engineering | Bachelor of Science in **Computer Science**

Eberly College of Science | Minor in **Astrophysics**

University Park, PA

Graduation: May, 2026

Dean's List: 2 Semesters

WORK EXPERIENCE

Perplexity

Campus Strategist - Penn State

Penn State University, PA

January 2024- Present

- Led 'Race to Infinity' campaign driving 774 total sign-ups (157 direct) with a 58% increase in sign-ups in the closing stages.

Academic Advising Chatbot

Undergraduate Researcher, Primary Investigator

Penn State University, PA

June 2024 - Present

- Developed an academic advising chatbot using commercial LLMs and APIs for the College of IST to assist students with course selections and academic queries, reducing student advising load by 35% with 74% more details.
- Published a research paper for ACM SIGCSE(2025) on the development, implementation, and impact of the academic advising chatbot, its influence on students and its relevance in the current academic landscape.

Autonomous UAV Research Project - MCREU

Undergraduate Researcher, Primary Investigator

Penn State University, PA

June 2024 - August 2024

- Conducted research on the impact of cloud and icing conditions on UAV performance using torque & RPM data: +/- 25%.
- Developed a methodology to monitor UAV propeller performance using onboard computers, and data analysis.
- Analyzed data to understand cloud properties, including water content and droplet volume, and their effects on UAV systems.
- Proposed future research directions focusing on real-time data processing algorithms to mitigate icing effects on drones.

IST 130 - Intro to AI and ART

Lead Learning Assistant, IST 130

Penn State University, PA

January 2024- Present

- Leading a team of 14 Learning assistants, managing grading, correspondence, and class operations.
- Trained and mentored 20 LAs, designed coursework and created documentation for future semesters and possible handover.
- Curated a list of Artificial Intelligence tools useful for the class; added more than 68 unique AI tools, categorized them by type, and added reviews for ease of access, to be shared with >400 students each semester.

Autonomous Vehicle Research Project - HTI Lab

Undergraduate Researcher

Penn State University, PA

September 2023 - May 2024

- Assisted in conducting a driving simulator experiment to investigate how drivers behave when they interact with Autonomous and Human-driven vehicles on the road with varying amounts of market penetration - 25%, 50%, 75% & 100%.
- Helped streamline the Experiment design and learned how to write code and documentation for the simulation scenarios in the proprietary software for STISIM3's driving simulator, and created 4 new simulation environments.

PROJECTS & CLUB EXPERIENCE

NASA Big Idea Challenge 2024 [SSPL]

Team Lead; Researcher

Penn State University, PA

October 2023 - February 2024

- Led a team of 15 individuals in the annual Big Idea challenge, under faculty guidance, working towards the development of a groundbreaking inflatable technology project to 3d print on the moon using lunar regolith & proprietary NASA systems.
- Collaborating with faculty advisors & industry experts and using cutting-edge research facilities on campus to engineer end-to-end systems that facilitate additive construction on the moon using lunar regolith.

Student Space Programs Laboratory - [SSPL] Member

September 2023- Present

- Learnt how to build a functioning Payload for a low-flight rocket on a 3-month timeline following PDR & CDR Reviews
- Programmed the entire payload system through rapid prototyping started with the ConOps logic stage and used standard Arduino IDE based on C# to write code to collect 6 real-time datapoints and visualize based on mission-specific conditions.

Electrobotics

Intern, Robocon Team Lead

Ahmedabad, India

September 2019 - October 2019

- Collaborated with a team of 3 students and 2 advisors to design highly advanced prototypes for a 4-wheel AWD system and a 4-axis robotic arm, leading to recognition for creativity and technical expertise in drone engineering.

SKILLS & INTERESTS

Skills: Programming languages (Python, Java, C, C++, C#, HTML/CSS, SQL), MS Office, Cloud Computing, GPU, MySQL, Data science, Linux, Unix, database management, PyTorch, product design, backend, end-to-end, cross functional, customer needs, market analysis, critical thinking, agility, problem-solving, Customer Service, GitHub, Version Control, JavaScript, NoSQL, Excel, NumPy. Soft skills(effective communication skills, attention to detail, decision-making, team player, growth mindset,), Product features.

Interests: Project management, Space Systems Engineering, Artificial Intelligence, Machine Learning, Computer Vision, Deep Learning, product management, DevOps, front-end, full-stack, IoT, API, Statistics, Source Code, computer vision, open source.