LUNIVA JOSHI

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EDUCATION

Rutgers University - Honors College at the School of Engineering **September 2024 - May 2028**
B.S. Mechanical Engineering, B.A. Computer Science, Minor in Math
Rutgers Formula SAE Racing, AIAA (RU Autonomous, Rutgers Propulsion Lab), Women in CS, Society of Women Engineers
Relevant Coursework: Honors Statics; Honors Dynamics; Physics 1, 2, 3; CAD in Mechanical Engineering; Calculus 1, 2, 3; Data Structures

SKILLS

- Programming: Python, Java, Wolfram, Web Development, GitHub, Jupyter Notebooks, MATLAB
- CAD and Simulation Tools: SolidWorks, Siemens NX, Onshape, Fusion 360
- Robotics: Arduino, FIRST Tech Challenge, FIRST Lego League
- Soft Skills: Leadership, Problem-Solving, Collaboration, Communication, Adaptability, Teamwork

WORK EXPERIENCE

Liberty Science Center **Jersey City, NJ**
Seasonal Guest Ambassador **June 2024 - August 2025**
- Engaged 1,000–3,000+ daily visitors in STEM learning by communicating scientific concepts, supporting 15+ outreach events, and operating the Liberty Express Train attraction with a focus on safety, interactive commentary, and a collaborative guest experience.

Code Wiz of Edison **Edison, NJ**
Lead Robotics and Coding Instructor **September 2024 - May 2025**
- Mentored 15+ students in Robotics, Python, Roblox, and Scratch, achieving a 90% project completion rate while developing curricula with Arduinos, Raspberry Pi, and competitive platforms (FLL, FRC) to deliver hands-on STEM learning experiences.

RELEVANT EXPERIENCE

Rutgers Formula Racing **New Brunswick, NJ**
Chassis Team Member **September 2024 - Present**
- Collaborated with a multidisciplinary team to design, analyze, and manufacture a Formula SAE vehicle chassis, conducting 20+ SolidWorks simulations to ensure full compliance with safety standards.
- Fabricated precise components and improved manufacturing speed through the development of 20+ custom jigs and fixtures.

CodePath **Virtual**
Android Development Scholar **June 2025 - August 2025**
- Built 7+ functional apps with Kotlin in Android Studio, integrating REST API calls and JSON parsing to deliver dynamic, data-driven functionality.
- Designed and styled responsive UI components with XML layouts, themes, and attributes, ensuring usability, scalability, and polished user experiences.

Cybersecurity Scholar **June 2025 - August 2025**
- Gained experience with Linux, SSH, RDP, cloud-based VMs, penetration testing (Metasploit), and vulnerability analysis across 7 real-world simulation projects.
- Led a capstone team investigating phishing attacks, proposing an AI-based multi-platform detection tool while strengthening skills in ethical hacking, technical communication, and collaborative threat analysis.

PROJECTS

Moodify – Android Music Playlist Generator | GitHub: https://github.com/CodepathPod4/Capstone
- Collaborated in a 3-person team to build an Android app that generates mood-based playlists, integrating the Last.fm API to fetch real-time songs, artists, and album covers with features like preset mood buttons, search functionality, and a scrolling song list.
- Implemented preset mood buttons, a dynamic search bar, and a RecyclerView with custom colors and layouts, enhancing usability, visual appeal, and overall user engagement.

NASA L'SPACE NPWEE | Mechanical/Materials Engineer **May 2025 - August 2025**
Neuro-ocular Exploration & Observation Network (N.E.O.N) | Proposal Report, Top 7 Proposal
- Achieved Top 7 national placement in NASA L'SPACE NPWEE with the N.E.O.N (Neuro-ocular Exploration & Observation Network) headset proposal to detect and mitigate Spaceflight-Associated Neuro-Ocular Syndrome (SANS).
- Served as Mechanical/Manufacturing Engineer, completing Siemens NX CAD certification and contributing to optical headset design and astronaut vision risk mitigation.
- Researched materials compatibility and degradation under ISS-like conditions (humidity, thermal cycling, UV exposure), applying NASA STD-6001 and ASTM E595 standards to evaluate materials and recommend aerospace-grade alternatives (e.g., carbon-filled PA12 via SLS).
- Investigated thermal transfer and condensation in head-mounted systems, evaluated anti-fog nanocoatings, and collaborated with SMEs to deliver a 12-month development plan with NASA documentation compliance.