Prabhat Adhikari

3660 Watseka Ave APT 1
Los Angeles, CA 90034
(412) 330-7120

prabhat.ad73@gmail.com
pra22.github.io
[/in/prabhat-ad](https://linkedin.com/in/prabhat-ad)

EDUCATION   **University of Pittsburgh, Swanson School of Engineering**
Bachelor of Science in Mechanical Engineering, 2019 | Summa Cum Laude

EXPERIENCE

SpaceX

Structures Engineer II, Starship   August 2024 to February 2025

- Ship primary structures Responsible Engineer
- Built aft dome and thrust structure global FEM for the V2 ship, and performed detailed structural analysis for flight, reentry and landing
- Served as Structures RE on console for ship ground test operations
- Design and analysis of Starship V3's center engine thrust structure and stiffened dome

Structures Engineer I and II, Falcon   February 2020 to August 2024

- Responsible Engineer for large composite structures on Falcon 9 and Heavy: Interstage, Booster Nosecone, Landing Legs
- Design, analysis, and testing of composite and metallic structures (large carbon fiber composite structures, bolted and bonded structural joints, various secondary structures)
- Responsible for taking major structural components of the Falcon 9 and Heavy through reuse qualification for internal, commercial, and government missions, with a combination of structural and fracture analysis, and sub-scale and full-scale testing

Pitt Rocketry Team   October 2018 to September 2019
Lead Payload Engineer

- Led the hardware and software development, prototyping, testing and integration of an autonomous rover deployed from a high-powered rocket for the NASA Student Launch competition
- Designed a Printed Circuit Board to integrate the power system and the sensor + actuator suite
- Wrote embedded Arduino software to achieve autonomous driving, radio communications and remote sample collection

Product Development and Sales (Self)   July 2019 to November 2019

- Design, manufacture and sales of a Geiger counter with modern hardware and software features
- Project featured on Hackaday and Hackster.io tech news blogs, 30+ units sold online
- Published as open source project, inspired several copies, modifications and improvements by other hobbyists

SKILLS

CAD: Siemens NX, Solidworks. **FEA**: Femap (NASTRAN), Ansys, Abaqus. **Programming:** Matlab, Python, C++ (Arduino)