

# Aaryan Lath

Systems and Design Engineer | (312) 838-5669 | aaryanlath05@gmail.com | linkedin.com/in/aaryan-lath

## EDUCATION

### Purdue University

**Bachelor of Science in Aeronautical and Astronautical Engineering** (GPA: 3.74/4.0)

Minor in Business Economics

Honors: Dean's List and Semester Honors for **every** semester, **AAE Ambassador**

**West Lafayette, IN**

*Expected May 2026*

## SKILLS

**Technical Skills:** Microsoft Office Suite, Creo, NX, Fusion 360, PLM, Teamcenter, SAP, Systems Design, Manufacturing, Aerodynamics, Python, MATLAB, Simulink, Financial Analysis, CAM, FEA, Ansys, Java

## PROFESSIONAL EXPERIENCE

### Siemens USA

*Mechanical Engineering Intern*

**Grand Prairie, TX**

*May 2025 – Present*

- Designed custom enclosures for panelboards using **CREO** and executed ECNs in **SAP**.
- Streamlined switchboard configurations by engineering neutral assemblies to resolve design edge cases.
- Developed Python scripts to refine a back-end algorithm, automating the BOM generation process for orders.

### School of Aeronautics and Astronautics

*Undergraduate Teaching Assistant*

**West Lafayette, IN**

*Jan 2025 – Present*

- Led study sessions to teach **50+** students, core **AAE 251** (Aircraft and Spacecraft Design) course material.
- Provided personalized support to students with concepts and **MATLAB** troubleshooting.
- Guided students in understanding key design principles for the aircraft and spacecraft design project.

### Resilient Extraterrestrial Habitat Engineering

*Undergraduate Research Assistant - Systems Engineer*

**West Lafayette, IN**

*May 2024 – Present*

- Analyzed **18** potential disruptions scenarios in a lunar habitat through conducting **Simulink** simulations.
- Performed trade studies to evaluate safety controls, optimizing **habitat resilience** while minimizing costs through **Equivalent System Mass** analysis.
- Executed **FEA** simulations and tests to validate **vibration isolation** devices under various conditions.

## PROJECTS AND INVOLVEMENTS

### SAE Aero Design

*Chief Engineer*

**West Lafayette, IN**

*May 2025 – Present*

- Authored an **RC aircraft design guide** to accelerate onboarding and documented past failures from the SAE Aero Design Regular Class to avoid recurring errors.
- Leading technical development for **4** sub teams by reviewing trade studies and ensured milestones are met.

### Purdue Space Program – A SEDS Chapter

*Secretary*

**West Lafayette, IN**

*Dec 2024 – May 2025*

- Optimized the organization's backend operations and managed **9** technical teams, improving club efficiency.
- Launched a club initiative to create employment opportunities tailored for students.

*Satellites Deputy Systems Director*

*Feb 2024 – Nov 2024*

- Improved project progress with **~15** engineers and other sub-teams ensuring alignment with project goals.
- Formulated, reviewed, and refined **200** project and system-level requirements for Boiler Bus.
- Manufactured** the satellite frame end plates using **CAM** and walls through **laser cutting**

### Single Piston Sterling Engine

*Test Engineer*

**West Lafayette, IN**

*Oct 2024 – Jan 2025*

- Tested for end-to-end connectivity between **NX** and **Teamcenter** for students in preparation for deployment.
- Reported bugs in Engineering Change Orders (**ECOs**) and Product Data Management (**PDM**) workflow.

*Lead Designer*

*Aug 2023 – Dec 2023*

- Designed a Single Piston Sterling Engine as a project of MFET for 16300 using **NX**.
- Guided fellow students in creating the part hierarchy and utilizing CAD and **PLM** software effectively.