

# LANGSTON JOHNSON

[lcj36@cornell.edu](mailto:lcj36@cornell.edu) | 202-674-8804 | [My Portfolio](#) | [linkedin.com/in/langston-johnson](https://www.linkedin.com/in/langston-johnson)

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## EDUCATION

### Cornell University

Bachelor of Science - Mechanical Engineering

GPA: 3.88

Relevant Coursework: Engineering Materials, Heat Transfer, Spacecraft Systems and Architecture

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Ithaca, NY

May 2027

## TECHNICAL SKILLS

Software: SolidWorks, Fusion 360, Ansys, Git, Python, C#, SQL

Electrical: PCB Design, Soldering (SMD/THT), Embedded Systems

Mechanical: CNC Machining, Mill & Lathe Operation, 3D Modeling, Mass Properties

Manufacturing: SAP Manufacturing Execution System (MES)

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## EXPERIENCE:

### Amazon – Project Kuiper | Mission Management Intern

June 2025 - September 2025

Mission Management Intern

- Reviewed the mechanical and financial feasibility of Aerospace Hardware Contracts.
- Developed SQL queries to track the live status of hardware processing, integration, and open non-conformances using Manufacturing Execution Data.
- Created a Secure Dashboard to enable secure access to Processing Facility Operations data.

### Cornell Rocketry Team | Solidworks, Ansys, Machining

September 2024 – Present

Structures Subteam

- Modeled Launch Vehicle using flight data to predict performance of Airbrakes subsonic and transonic regime and inform design parameters.
- Structural Ansys testing of drag inducing elements under loads predicted from the model.
- Designed integration bulkheads and motor retaining rings for CNC machining.
- Created mass properties documentation and BOM for the system in preparation for fabrication.

### Alpha Mission, Cornell University | Embedded Software, Antennae Tuning

August 2023 – Present

High Altitude Balloon - Integration and Testing

- Developed electrical and software systems for the high-altitude balloon deployment.
- Programmed test scripts for all flight board systems.
- Wrote technical procedural documentation for requirement verification.
- Designed and tested LORA and GPS Dipoles for Solar-Sail-mounted Chips.
- Performed final integration procedures for the release mechanism of world's first free flying light sail.

Learn more at my [Engineering Portfolio](#)

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## AWARDS

### Dean Archer Undergraduate Research Award

June 2024

- Assembled and tested the flight board circuit's power system, microcontroller, sensors, and actuators—led software development of embedded flight code for sensor data monitoring, control tasks, and data downlinks.

### Patti Grace Smith Fellow - Class of 2025

October 2024

- The award-winning program provides extraordinary undergraduates with their first work experience in the aerospace industry. Was selected for the class of 2025.