

Ethan Nguyen

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EDUCATION

University of Colorado Boulder

Boulder, CO

Bachelor of Science in Aerospace Engineering

Aug 2025 – May 2029

Relevant Coursework: Aerodynamics, Propulsion Systems, Orbital Mechanics, Structural Analysis, Flight Dynamics, Spacecraft Design

GPA: 3.88/4.0

TECHNICAL SKILLS

Languages and Technologies: Python, MATLAB, C++, FORTRAN, Simulink, ANSYS, SolidWorks

Tools and Frameworks: Git, Docker, AWS, ROS, LabVIEW, STK, OpenVSP

PROJECTS

CubeSat Design and Simulation | MATLAB, Simulink, SolidWorks

- Designed and simulated a CubeSat for low Earth orbit missions
- Developed orbital mechanics models for mission planning and trajectory optimization
- Created 3D models and structural analysis for the satellite frame

Autonomous Drone Control System | Python, ROS, Gazebo

- Developed an autonomous drone control system using ROS and Gazebo
- Implemented obstacle avoidance and path planning algorithms
- Conducted performance testing in simulated and real-world environments

Rocket Propulsion Simulation | Python, MATLAB, ANSYS

- Simulated rocket propulsion systems for performance analysis
- Optimized thrust and fuel efficiency using computational fluid dynamics
- Visualized simulation results for engineering presentations

RESEARCH EXPERIENCE

Research Assistant - Space Systems Lab

Jan 2028 – May 2028

University of Colorado Boulder

Boulder, CO

- Conducted research on satellite communication systems for deep space missions
- Developed algorithms for signal processing and data transmission
- Published findings in a leading aerospace engineering journal

WORK EXPERIENCE

Aerospace Engineering Intern

Jun 2027 – Aug 2027

Lockheed Martin

Littleton, CO

- Designed and tested components for satellite systems
- Conducted thermal and structural analysis for spacecraft components
- Collaborated with cross-functional teams to meet project deadlines

Software Development Intern

May 2026 – Aug 2026

Ball Aerospace

Boulder, CO

- Developed software for satellite ground control systems
- Implemented data processing pipelines for telemetry data
- Optimized algorithms for real-time data analysis