

Colton J. Crosby

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EDUCATION

Stanford University

Stanford, CA

Ph.D. Candidate, Aeronautics and Astronautics

May 2026 – Jun 2030

M.S., Aeronautics and Astronautics, 2026 | GPA: 3.96 | Stanford Robotics Center Scholar

California Polytechnic State University

San Luis Obispo, CA

B.S., Aerospace Engineering, GPA: 3.99

Sep 2020 – Jun 2024

PUBLICATIONS

- H. Wang, J. Bowden, C. Crosby, S. Bansal, “Offline Policy Evaluation for Manipulation Policies via Discounted Liveness Formulation,” *Robotics: Science and Systems (RSS)*, 2026.

FELLOWSHIPS & AWARDS

Stanford Robotics Center Scholarship, Stanford University

2026 – Present

EDGE Fellowship, Stanford University

2024 – 2026

Outstanding Graduating Student Award, Cal Poly College of Engineering

Jun 2024

Spacecraft Controls Award, Cal Poly Aerospace Engineering Department

Jun 2024

SKILLS

Programming: Python, PyTorch, JAX, C++, ROS, MATLAB/Simulink, Julia

Technical: Signal Processing, Data Visualization, Experimental Design

EXPERIENCE

Stanford Safe & Intelligent Autonomy Lab

Stanford, CA

Ph.D. Researcher

Jan 2025 – Present

- Designed a safety filter to predict and mitigate failures in visuomotor manipulation policies
- Trained latent world models for visuomotor policy fault prediction and recovery

Stanford Robotics Center

Stanford, CA

Robotics Research Intern

Jun 2026 – Sep 2026

- Developed tool calls for ROS-native multi-robot semantic SLAM, locomanipulation, and fleet management
- Built a fleet of four mobile manipulators with teleoperated and policy-driven autonomous control

NASA Jet Propulsion Laboratory

Pasadena, CA

Academic Part-Time Researcher

Jun 2022 – Feb 2024

- Coded a noise-robust FEM / experimental modal correlation algorithm using cross-orthogonality
- Managed the JPL MAIS tool for NEO Surveyor and Roman-CGI Flight Project V&V
- Modeled toroidal particle contact mechanics in Abaqus for metamaterial development

Cal Poly CubeSat Laboratory / ETOILES Small Sat Laboratory

San Luis Obispo, CA

Lead Avionics Systems Engineer, Project Manager

Feb 2021 – Sep 2022

- Led design of a CubeSat on-board flight computer, coordinating across avionics subsystem teams
- Researched JPL F' avionics framework for CubeSat flight software development