



## Sabrina Nicacio

Masters Student in Aeronautics and Astronautics, admitted Autumn 2025

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### Bio

#### BIO

Sabrina Nicacio is a Knight-Hennessy Scholar and graduate student in Aeronautics and Astronautics at Stanford University, specializing in Guidance, Navigation, and Control (GNC). She earned her B.S.E. in Mechanical and Aerospace Engineering from Princeton University with a Minor in Robotics and Intelligent Systems.

Sabrina has delivered technical results across leading aerospace institutions—designing flight hardware for Starship launch operations at SpaceX, developing multi-robot navigation algorithms for NASA JPL's CADRE lunar mission at Stanford, and improving heat treatment processes for 3D-printed turbine blades at MIT. Her senior thesis at Princeton introduced a fuel-optimal reconfiguration framework for satellite swarms, applying convex optimization to orbital dynamics.

Sabrina is focused on building scalable, autonomous systems for spacecraft coordination and precision navigation. Her work reflects a deep technical foundation and a drive to solve mission-critical challenges in spaceflight.