

Team Members



Scarlett Alexander Team Leader







Michael Lennon Design Lead Engineer



Daniel Hernandez Arzate Quality Control Engineer



Kyle Higa Aviation Engineer

Problem Statement

Design a primarily 3D printed aircraft with the goal of maximizing flight duration. Its path of flight must not deviate for more than 3 seconds outside of a designated 300' x 160' x 30' space. Motor power may only be used during the initial 8 seconds of flight.

Final Product



3D Printed Aircraft Competition by Plane Jane



CAD Design





Design Analysis





Stress Distrubution in Expected Flight Conditions





Wing loading tested to see how strong our wing was, where the wing would break, and how much weight it would take to break it. Our goal was to have our wing withstand twice the weight of our whole plane because the maximum force it would undergo during flight is two g's. Our wing actually held almost 4x the weight of our plane!







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