SAN DIEGO STATE UNIVERSITY

STORK

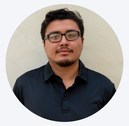
(Specialized Transport and Observation Remote Kopter)

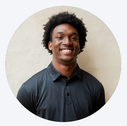
Our Video!

S.T.O.R.K

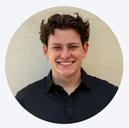
The STORKs


Allan Valdez (M.E.)


Eddie Meza (M.E.)


Jalen Jones (E.E.)


Nathan Lozano (M.E.)


Justin Ochoa (M.E., Procurement Specialist)


Daniel Solomon (E.E.)


Luis Laurean (M.E., M.E. Lead)


Flavio Signoretti (E.E.)


Luiz Gonzalez Bautista (CompE., ECE Lead)


Sophia Garcia (CompE.)

Acknowledgments

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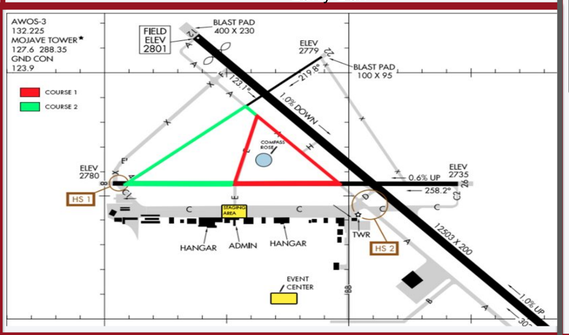
Dr. Scott Shaffar


Oscar Correa


Professor Barry Dorr


Mark Bruno

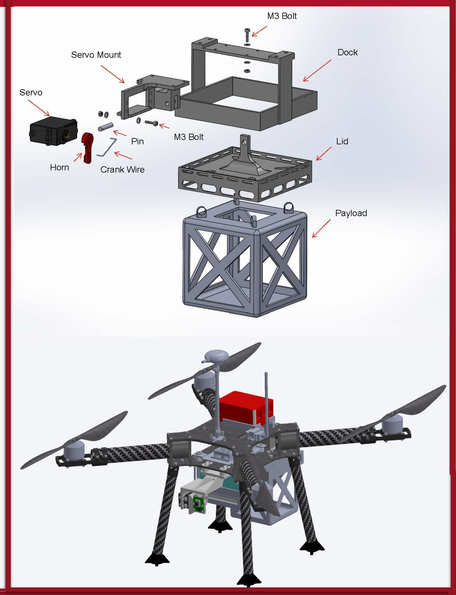


Overview

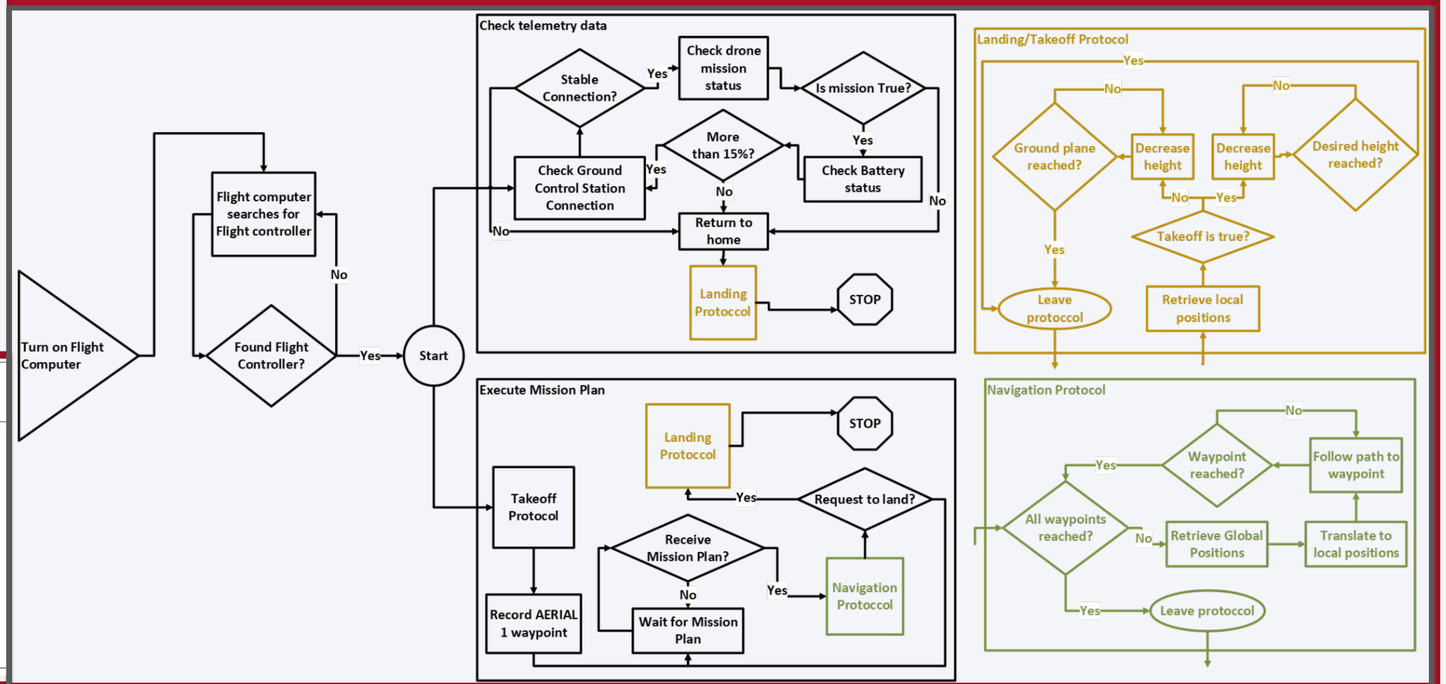
For the 2025 California Unmanned Aerial Systems Competition (C-UASC), our mission was to develop a small Unmanned Aerial System (sUAS) capable of precise waypoint navigation, target detection, payload drop, and payload delivery. We created a predominantly carbon fiber quadcopter. The system uses software solutions such as real-time flight control, mission planning, and a telemetry radio communication system. The modular payload delivery system can carry 2 types of payloads.

Final Drone Design

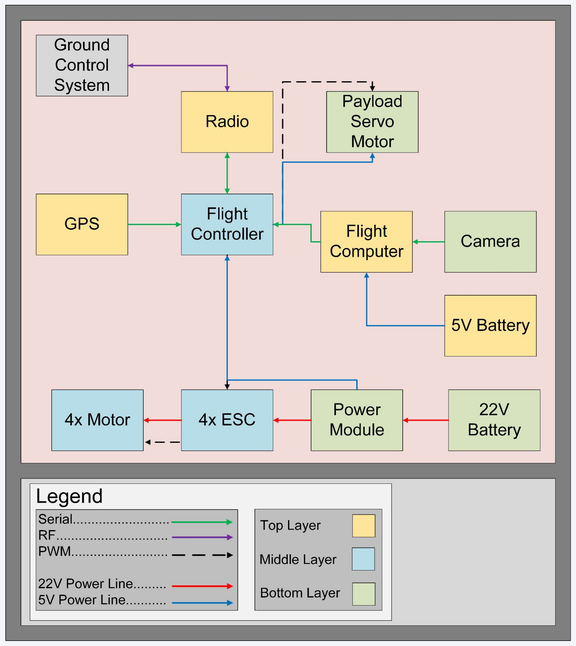
CAD Assembly



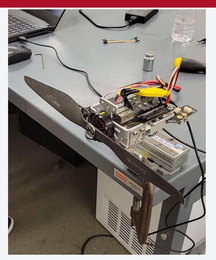
Code/Electrical Flow diagrams

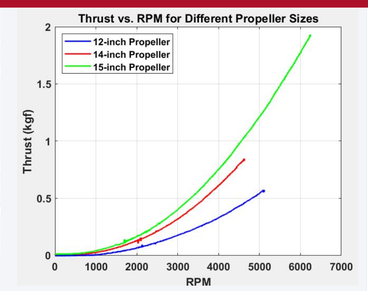


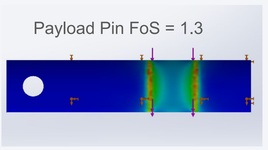
Block Diagram

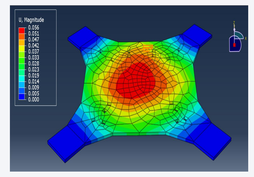


Testing


Thrust Test Bench







Spring 2025