

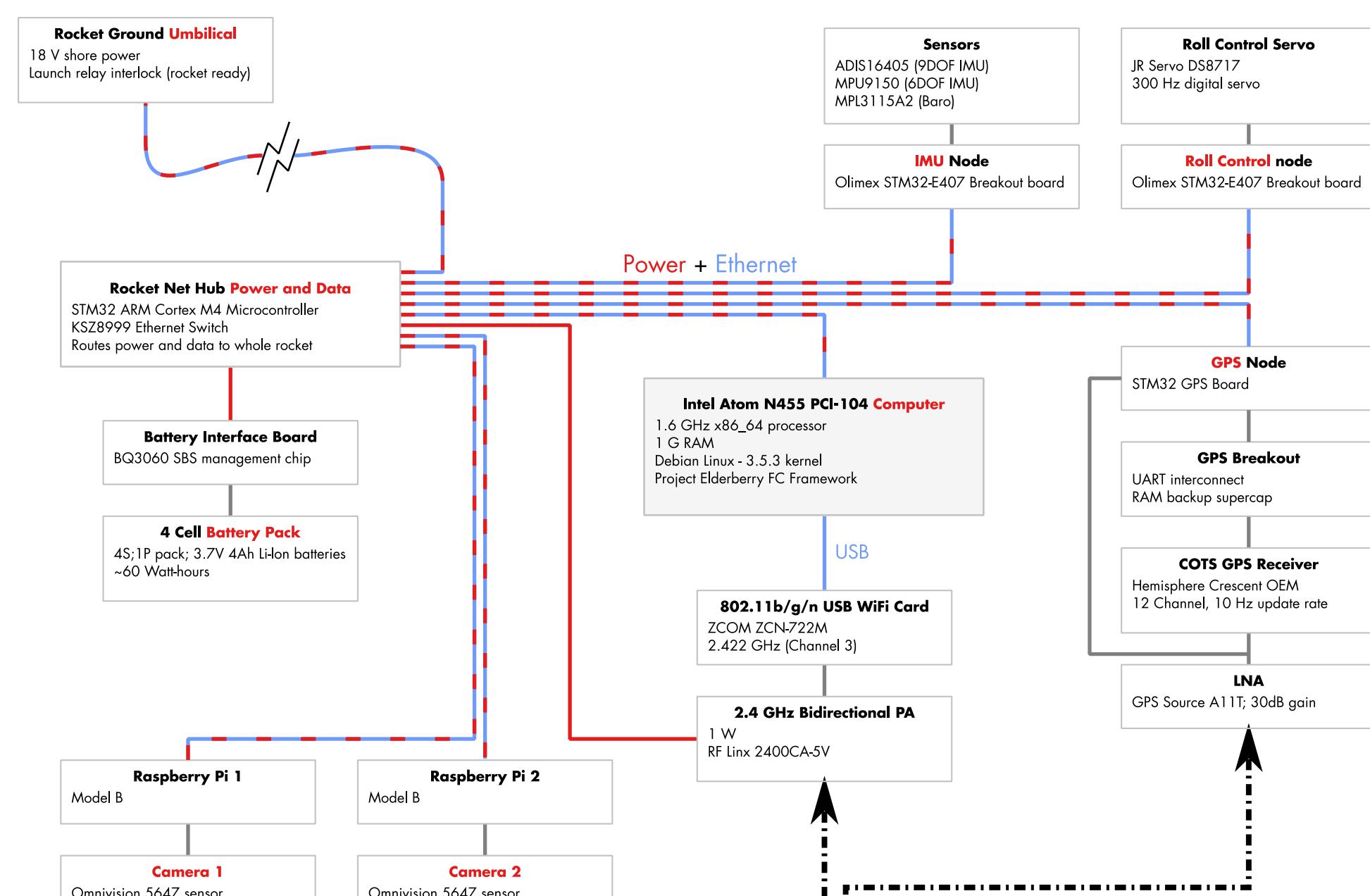


Portland State Aerospace Society

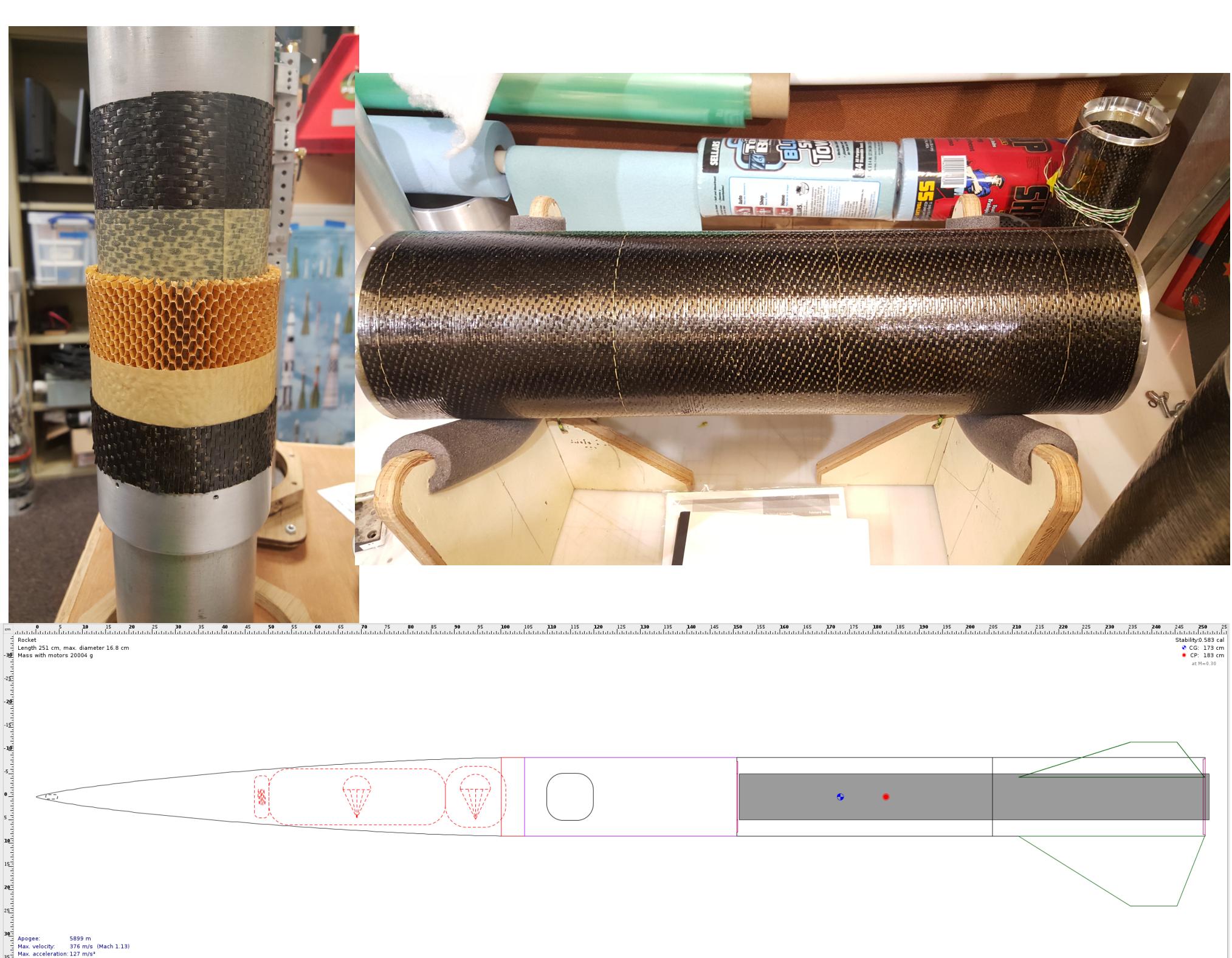


PSAS is a student aerospace engineering project at Portland State University. We're building ultra-low-cost, open source rockets that feature some of the most sophisticated amateur rocket avionics systems in the world.

Avionics



Airframe



Open source and open hardware full flight computer stack. Linux based primary flight computer, Ethernet based onboard data transfer between the arm-based subsystems.

This system is currently being downsized to a CubeSat form-factor.



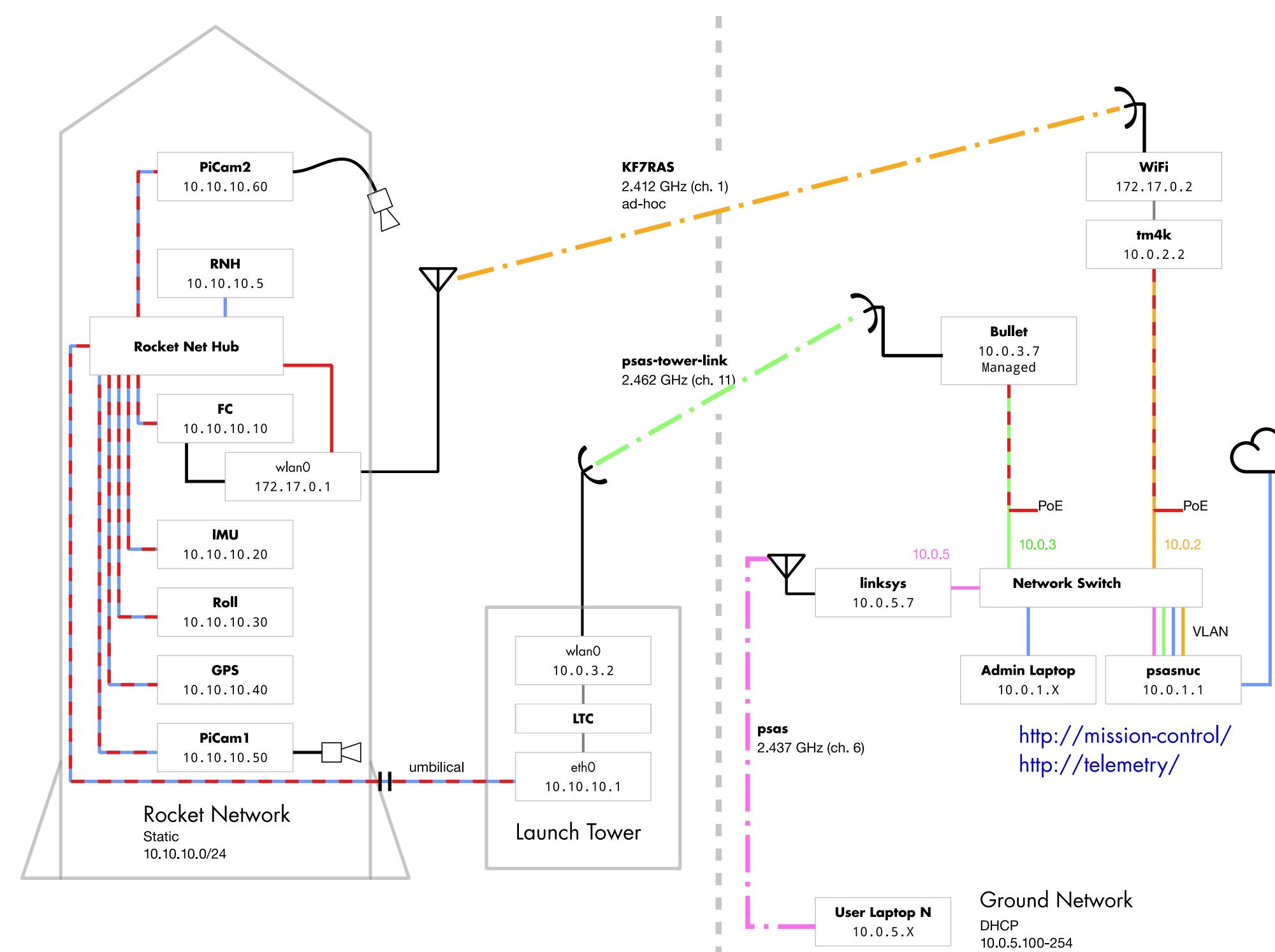
Reaction Control System



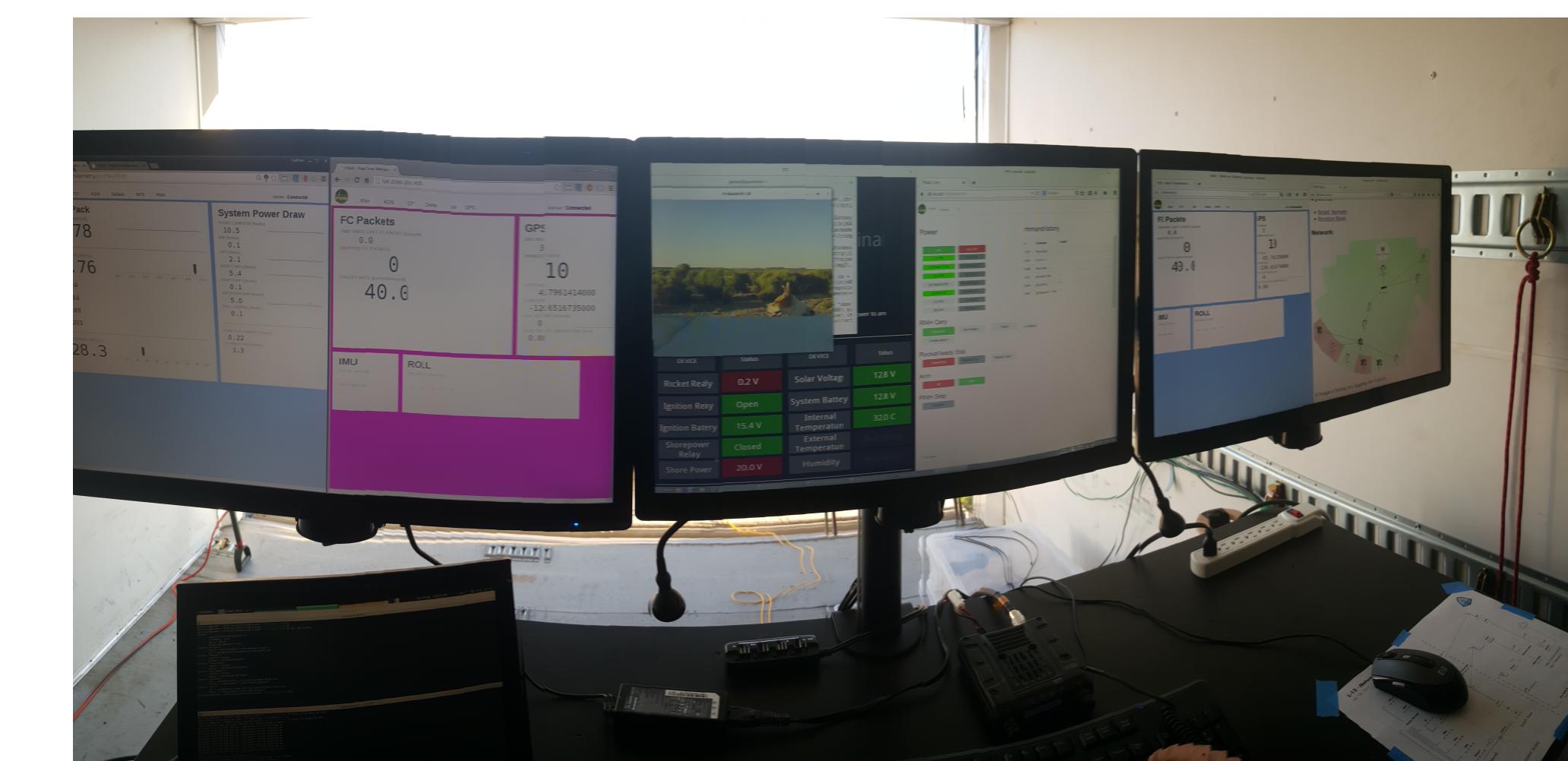
Proof of concept RCS system with (from left to right) high pressure tank, 100 psi regulator solenoid valves and machined+3D printed nozzle assembly.



Software



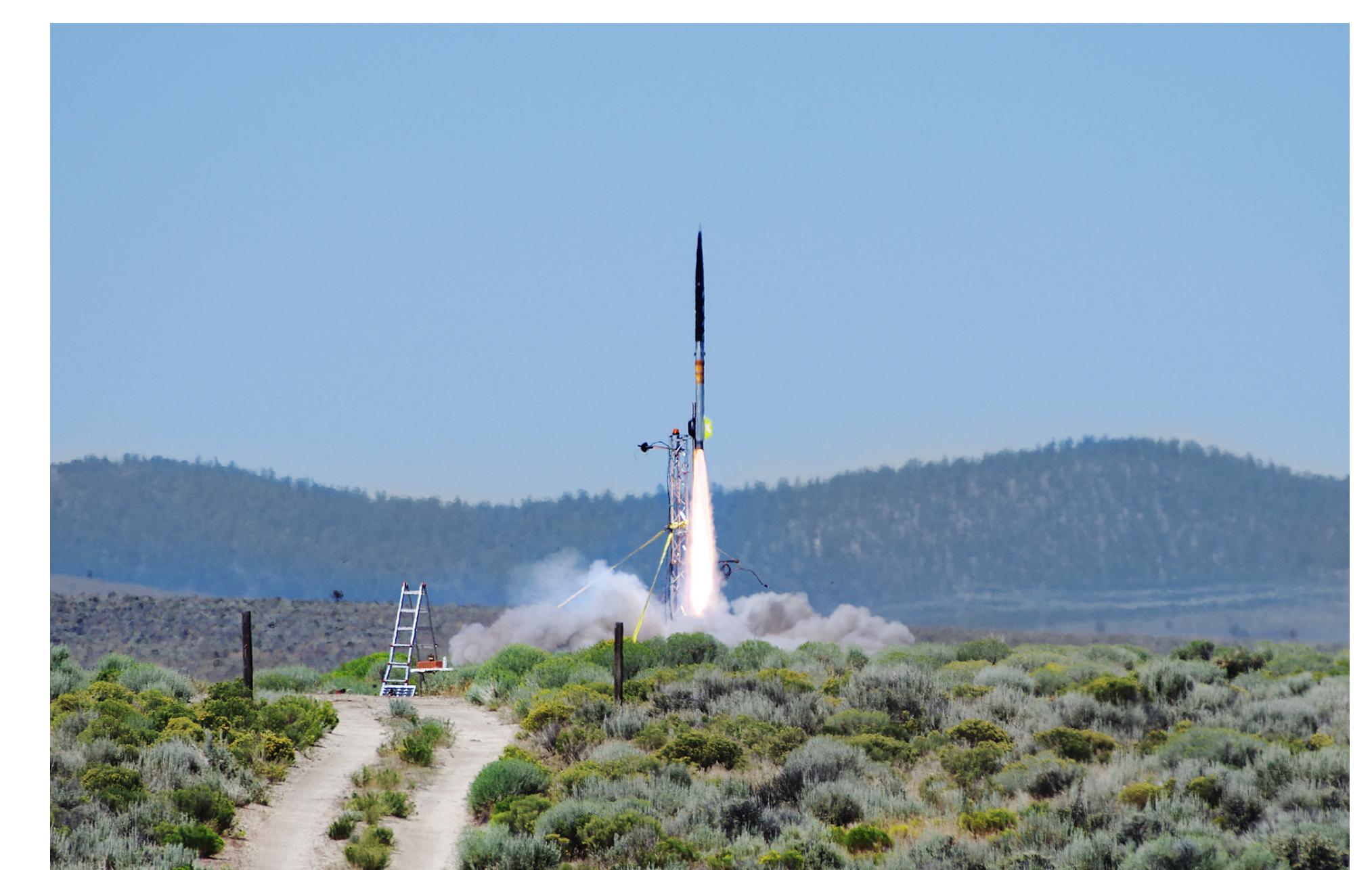
High level network diagram of the full launch system.



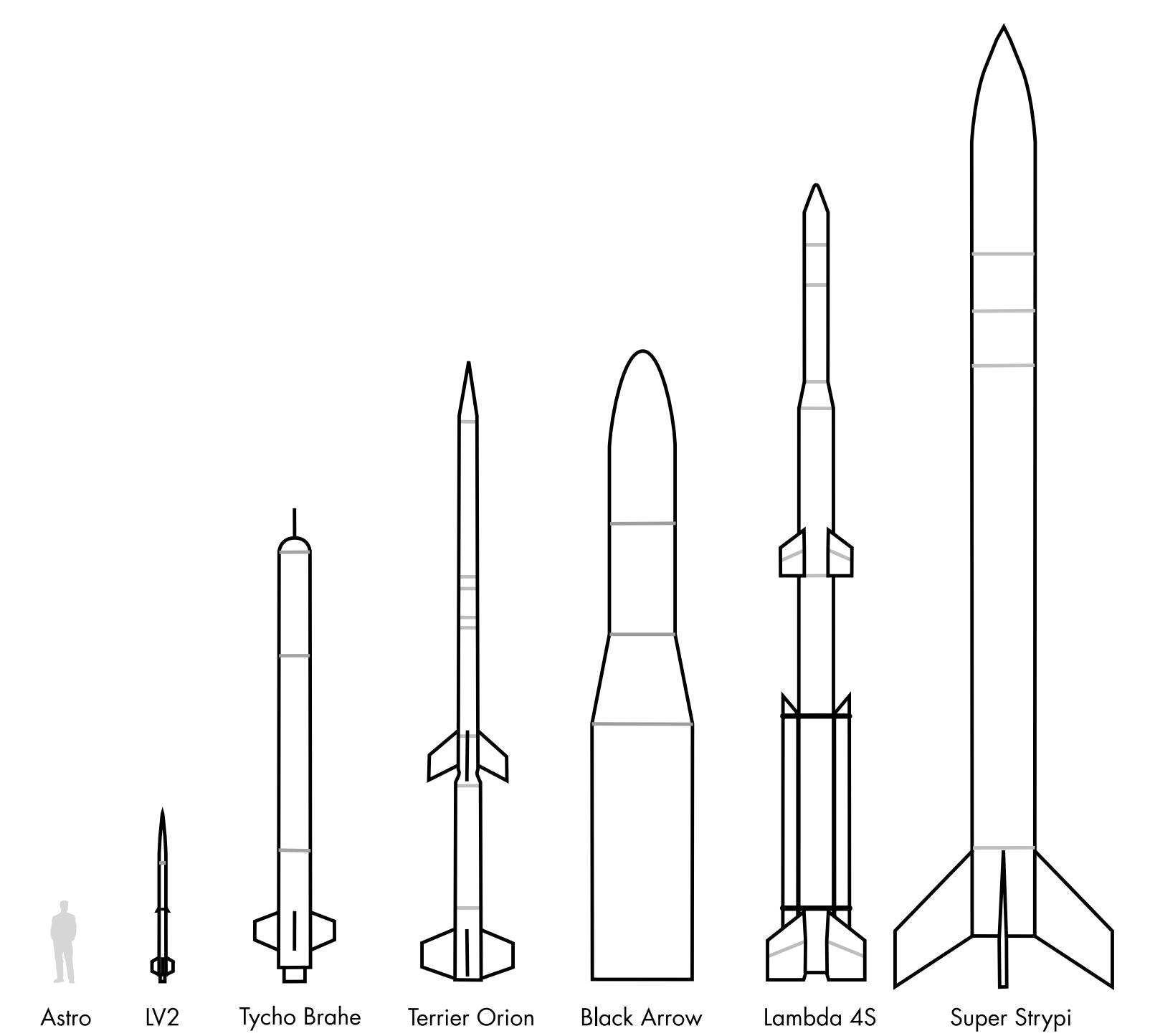
Mission control in the desert with full real time telemetry display

Contact Us!

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L-12 Liftoff!



Rocket Size Comparison