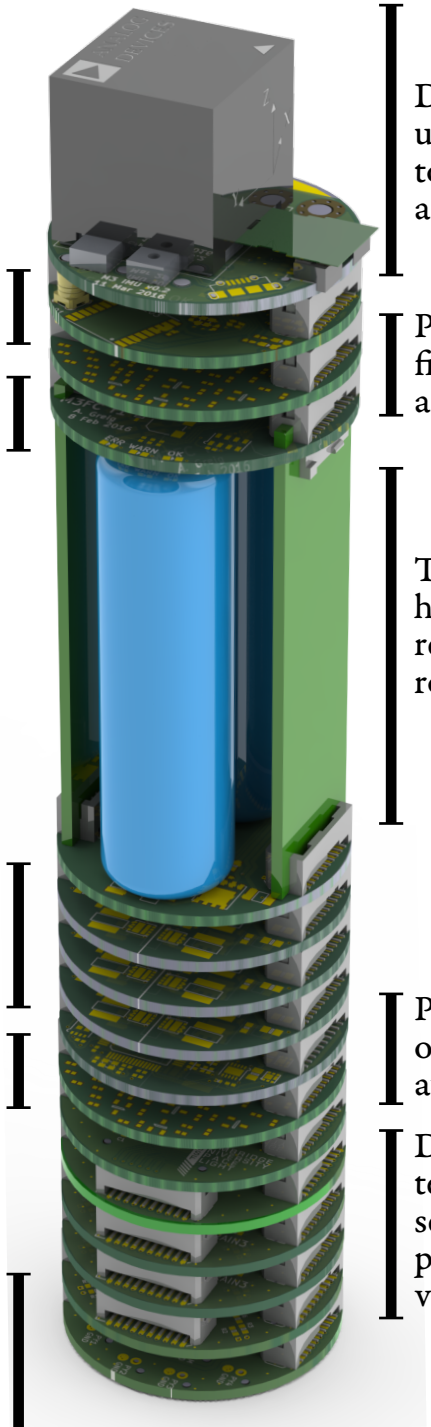

Dual inertial measurement unit uses inertial and barometric sensors to determine the rocket's altitude and velocity

Radio receives GPS signals and transmits rocket telemetry

Pyrotechnic board controls four firing channels for motor ignition and parachute release

Flight computer coordinates the avionics and follows the mission profile

Two LiPo batteries provide several hours runtime and can be recharged on the pad before the rocket switches to internal power

Twelve individually controlled and monitored power supplies provide the rest of the system with power

Power supply controller can switch other components on and off automatically or by remote control

Second pyrotechnic board gives another four firing channels

Datalogging stack records up to ten thermocouples, five pressure sensors, and six strain gauges, for post-flight analysis and design validation

Connectors for arming and power switches as well as umbilical cable which provides shore power, remote access to debug and reprogramming, and interface to the onboard data bus

40mm diameter