

# Air Vehicle Summary

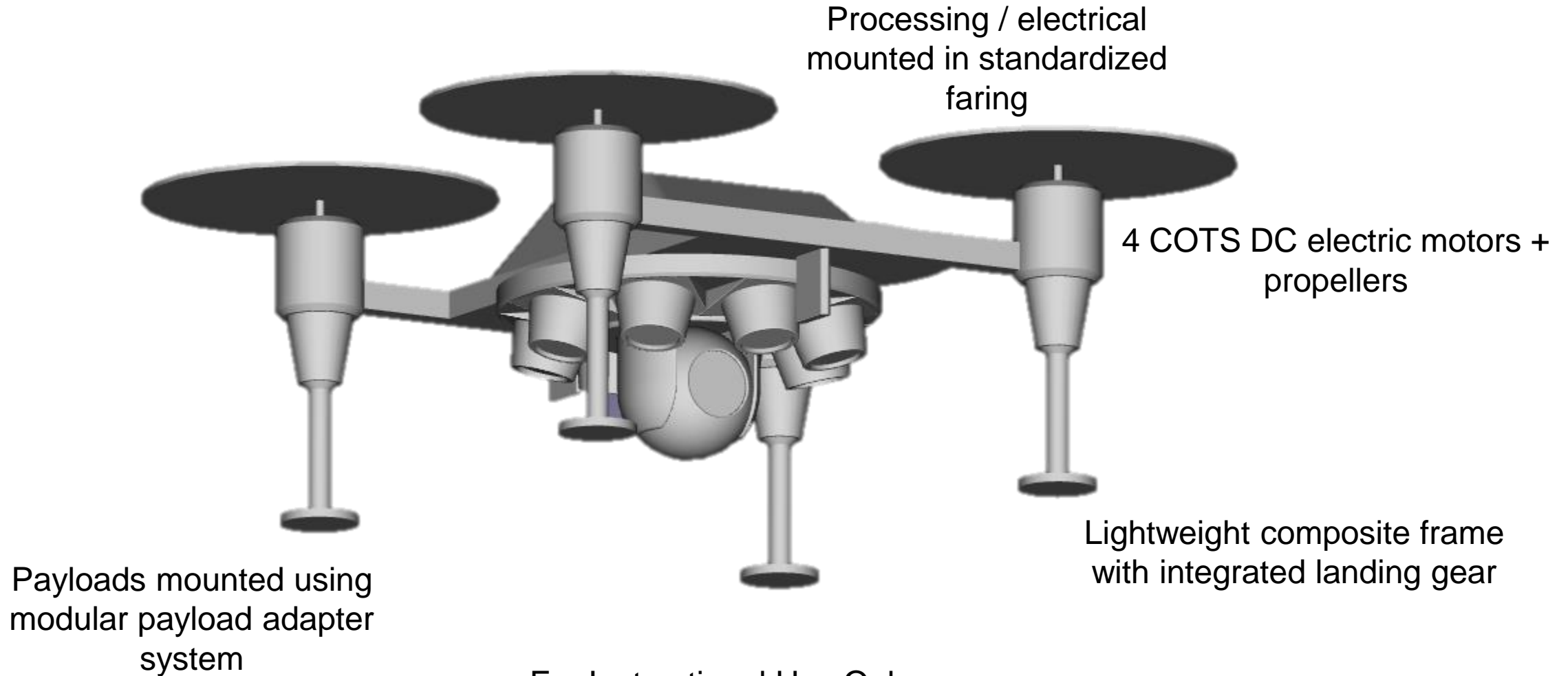


# Overview



- Air Vehicle Overview
- Performance
- Flight Control Update
- Communications

# Air Vehicle Overview

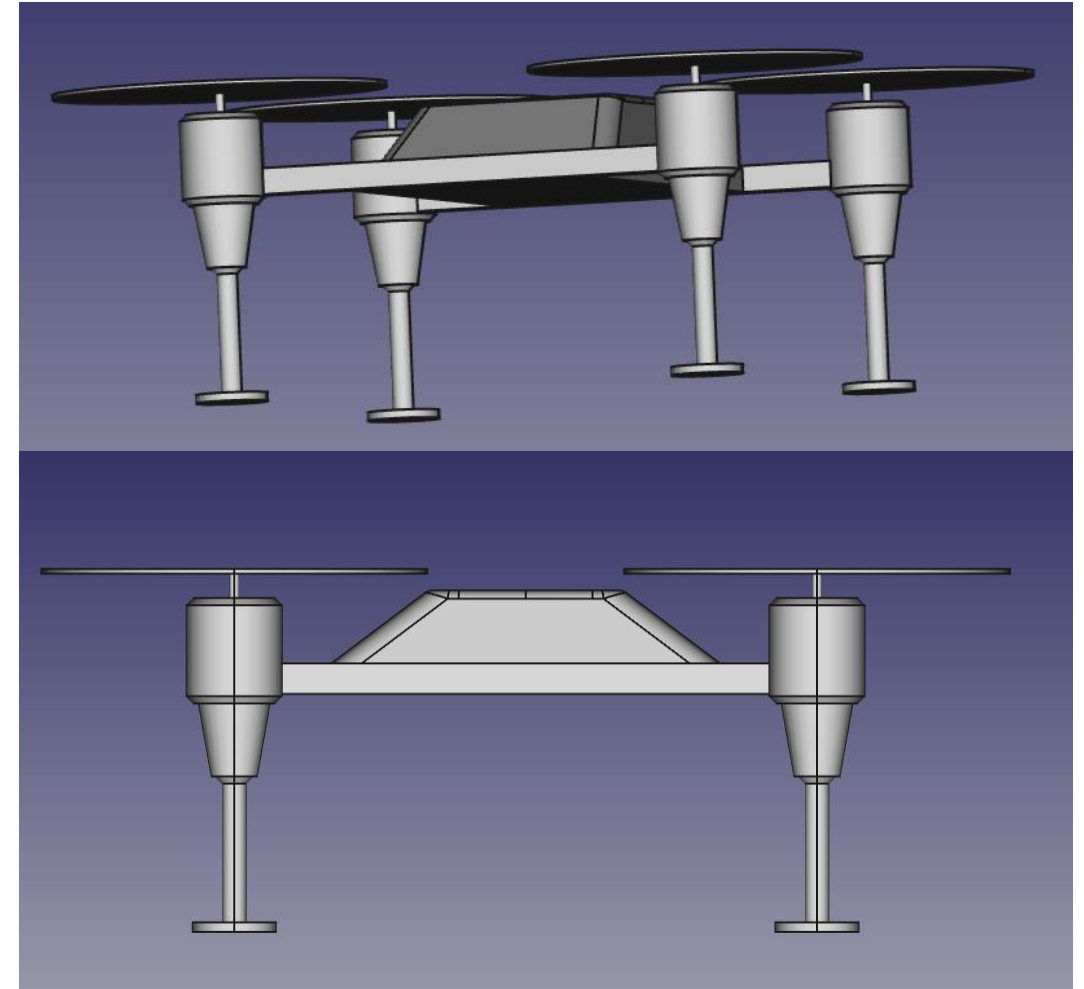


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# Basic Structure



- Carbon fiber / aluminum composite primary structure
  - Extremely lightweight
  - Robust for deployed operations
- Fiberglass faring to protect internal components
- Integrated modular payload mounting system – enables rapid re-configuration
- Extensive testing with Wanderer... deployed throughout the commercial industry





# Flight Control Update



- Requirement to eliminate foreign parts in the Flight Control System
- Required hardware / software re-build
  - Hardware sourced in US, with identical specifications (including size, weight and power) to Chinese components
  - Full software scrub – original source code analyzed, all pre-compile binaries are trusted
- Extensive analysis and testing shows that new FCS is functionally identical to legacy variant

- COTS UHF quadcopter radio
  - Utilized in Wanderer and multiple other commercial UAVs
  - Extensive long range flying lineage – 20 km+ in industry applications
  - Shared maintenance / supply with Wanderer reduces costs
  - Some commercial applications have encryption – room for Nomad growth capability
- Leveraging Wanderer control link software
  - Enables high reliability... proven over 15,000+ flight hours