

# ALTERNAIR

## OUR CAPABILITIES

01

### Systems Engineering

We listen to our customer's needs and provide leadership in establishing a clear path from the initial functional architecture to the final decomposed set of requirements for a successful path to program completion.



02

### System Safety and Certification

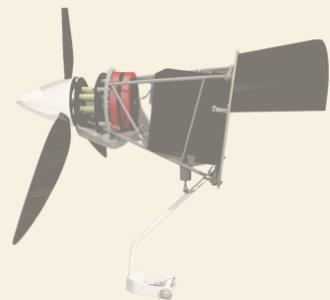
Our system safety experts and DER partners assure safety requirements and objectives are met early on for a successful path to program completion and certification.



03

### Design Capabilities

Our design engineers and industry partners provide the most efficient path to successful mechanical, electrical and software development and integration.



04

### Program Management

Our program management experts provide the most efficient way to move projects forward while staying on budget and managing risks, as well as managing all subcontracts with our business partners.



05

### Industry Experience

Alternair has established experience in the following areas:

- Detailed electric and hybrid aircraft design
- Avionics system, software and integration and certification
- Electrical system development and integration
- Hybrid electric powertrain development and integration
- Motor controller and inverter integration
- High power energy storage development and integration (Lithium Polymer Battery Packs)
- Embedded software development
- STC development
- Custom flight deck design and integration



06

### Industry Partners

Alternair has experienced industry partners, including:

- Certified electric motor manufacturers
- Composite and metal aerospace structures fabrication
- Structural analysis and testing
- DO-160G testing
- DAL A certified modular avionics partner
- Custom aerodynamics analysis
- Access to required testing facilities
- Access to manufacturing and assembly facilities



07

### Our Team

Alternair is a team of technical integration leaders. We have growth capability to bring on new talent internally, as well as rely on our trusted partners to complete our projects on time.

