

ENGINEERING DESIGN & MODIFICATION TEAM

The NIAR Engineering Design & Modification Team is a one-stop shop for new product development, production design, initial and Supplemental Type Certification, instrumentation installation, modifications and field support/repair. The team is skilled in program management; structure, systems and tooling design/integration; static, strength, fatigue and damage tolerance analysis; and weights, materials and process. The team has a combined experience of more than 875 years supporting commercial, military, special mission and business aircraft.

→ EXPERIENCED STRUCTURAL ENGINEERS

- Top performers w/ 25+ years of experience, hand-picked from industry
- Mixed with low-cost new grads to offer competitive rates
- One-stop solution from concept to certification, quality-driven
- Proven track record for quick turnkey solutions to engineering challenges

→ TURNKEY SOLUTIONS:

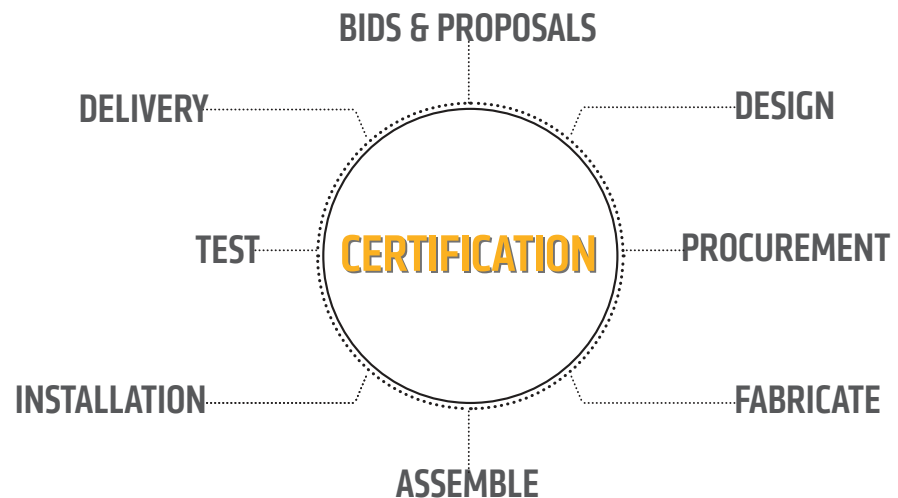
- Engineering, design, manufacturing, modification, test and certification
- Stand-alone work package capabilities
- Project management

→ PROJECT MANAGEMENT

- Program Management Project Engineering
- Weekly governance with customer
- Milestone/schedule/budget based communication
- Supplier Integration & Management
- Statements Of Work (SOW) & Sub-Contractor SOW
- Engineering Service Agreements (ESA)
- Aircraft In-Service support
- ITAR

→ ENGINEERING & DESIGN

- Structures & Systems Design
- Stress Analysis
- Interior Installation
- Mass properties
- Thermodynamics
- Aircraft/System Simulation
- Computational Fluid Dynamics (CFD)
- Loads & Dynamics
- Aircraft Performance
- Stability & Control
- Wind Tunnel Testing
- Flight Reconstruction
- Ballistics & Safe Escape
- Structure, systems, and tooling design and integration
- Static strength, fatigue, and damage tolerance analysis
- Weights and M&P



→ MANUFACTURING, TESTING & CERTIFICATION

- Part Fabrication
- Major Assembly
- Manufacturing & Tooling
- Methods & Processes
- Aircraft Modification/Installation
- Instrumentation & Data Acquisition Systems
- Experimental Equipment Installations for SOF
- Ground Rig & Flight Testing
- FAA STC Airworthiness Certification
- Support Military Airworthiness Certification
- FAA

→ CONTACT

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