Related Manufacturing, Engineering, 3D Modeling and Design Support

Core Capabilities
- Manufacturing Services
- Engineered Services
- 3D Modeling
- Technical Drawings
- ISO Certification

Manufacturing Services
- Build to Print
- Contract manufacturing
- 3D printing (Additive manufacturing)
  - Bed Size: 1m (39.37”) x 1m (39.37”) x 0.5m (19.68”)
  - Min Layer Height: 70 µm (.0027”)
- Available Materials: PLA, ABS, XT CF-20 (Carbon Fiber blend), Ninja Flex, PETG, Specialty Filaments upon request

Engineering Services
- Finite Element Analysis (FEA)
- Computational Fluid Dynamics (CFD)
- Thermal Analysis
- Integrated System Design (Electrical and Mechanical design from prototype to final product)
  - Validation and verification
  - Critical and final design review
- Programming (LabVIEW, microcontrollers)
- Rapid Prototyping
- Engineering test plans
  - Mechanical and electrical test plans
  - Design and development of test fixtures and systems
3D Modeling

*Electrical, Mechanical, Hydraulic and Pneumatic Systems*

- SOLIDWORKS models for concept, prototyping, detailed design and manufacturing

Technical Drawings

*I/AW ANSI Y14, NAVSEA, and NAVAIR Formats*

- Conceptual level
- Developmental level
- Production level
- Electrical schematics and wiring diagrams

ISO Certification

- ISO 9001:2015 Certified Quality Management System