ISO 9001:2015 & AS9100 Certification # 15140 Department of State Registered: M40198

DUNS Number: 047238828 CMMC Level 2 (In-Progress)

Cage Code: 89TX5



Aero Design specializes in prototype aircraft design, manufacturing, and test. We value seeing a product through all phases of its lifecycle, with engineering complementing in-house fabrication, assembly, closed loop with feedback from internal inspection and test. Aero Design provides our customers with fully-developed timely solutions.

Design and Analysis

- Structural design layout, detailed sizing and work instructions / documentation
- Solidworks Premium Computer Aided Design / Finite Element Methods
- Autodesk Fusion360/Inventor Computer Aided Manufacturing
- Polyworks Component inspection / Reverse engineering/ 3D Scanning

Manufacturing

- Quality Assurance: Quality Management System certified to the standards of ISO 9001:2015 & AS9100D
- Sheet/Metal fabrication: CNC Mill and Lathe capabilities for quick part turnaround with in-house CAD, CAM and Inspection. CNC Laser/plasma, complemented by traditional sheet metal fabrication tools and skilled operators
- Rapid prototyping: Laser cut jigs, templates, gaskets along with 3D printed fixtures and test components
- Composite manufacturing: Prototype Wet layup, pre-preg, bonded assemblies. Small composite curing oven & In-place oven builds for larger volumes
- Finishing: Inflatable Paint booth, powder coating of small components and vendors to support other component specific processes
- Assembly: In-house A&P, bench stock of hardware, 4900ft² shop with 2400ft² hangar, runway access

Customers

Stratolaunch LLC, The Spaceship Company, San Luis Engineering, NASA, Zone 5 Technologies, AFRL, DZYNE Technologies, Perlan Project, Lockheed Martin



Manufacturing Equipment:

Haas GM-2 145"x87.5"x22" CNC Mill (3 Axis) Shopsabre IS612 145"x85"x12" CNC Router (3 Axis) Haas UMC-500 24"x16"x16" CNC Mill (5-Axis) Haas VF-2 30"x16"x20" CNC Mill (3 Axis)

Haas TL-1 16"x30" CNC Lathe 2.1" through bore

11"x18" Manual Lathe Hardinge HVL-H

Laser Cutter 24"x24" 1200W Fiber (Sheet-metal cutting) Laser Cutter 51"x71" 150W CO2 Laser (Wood/Acrylic cutting)

Laser Cutter 12"x24" 40W CO2 Laser (Wood/Acrylic cutting and engraving)

Laser Marking 30W MOPA Laser with Scan Head (Metal engraving)

Laser Marking 60W MOPA +30W Diode Laser with Scan Head (Metal engraving)

13.75" x 12.5" x 12.5" 3D printer PLA, Nylon 12, ABS Bambulab H2D Pro 2x Markforged Onyx Pro 12.5"x 5.2"x 6.0" 3D printer Carbon filled Nylon (ONYX)

Lincoln Torchmate 4800 48"x96" 80amp CNC Plasma (cuts & marks up to 3/4" THK metal)

TECNA TE90 MKII 50kVa Spot Welder

300amp SquareWave TIG Welder Miller Dynasty 300 Miller Dynasty 200DX 200amp SquareWave TIG Welder Miller Syncrowave 250DX 250amp SquareWave TIG Welder

Millermatic 252 MIG Welder

Titan 25T 25 Ton 36" wide CNC press brake

Tennsmith HBU48-16 61" Box and Pan Brake 36" Stomp Shear Pexto Stomp Shear

Rotex 18A 0.0625" - 2" 18 station turret punch

20"x13" Vertical Bandsaw **DoALL 2013-V** Grizzly G0561 7"x12" Horizontal Bandsaw

18"x18"x18" Oven Despatch

Romer arm 7725 7-Axis Ultra-High Accuracy CMM Arm with Integrated Scanner

Hexagon Leica AT960 MR Laser Tracker with 65' Radial Range Brown & Sharpe Xcel 765 Coordinate Measuring Machine Standridge Granite 48"x72" Grade A Granite Table Standridge Granite 36"x48" Grade A Granite Table

Starrett 0"-72" **Height Gauges**

Metrology Tools Mitutoyo Calipers, Micrometers, depth gauges, Gauge blocks, pin &

ring Gauges, etc.

Extensive stock of aircraft

hardware

hardware

AN, MS, NAS, HiLok, Clickbond, AMP and other specialty aircraft