









Aero Design LLC specializes in prototype design and manufacturing. We value seeing a product through all phases of its lifecycle. With engineering complementing in-house fabrication, Aero Design LLC 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 Computer Aided Manufacturing
-  PC-DMIS CAD++ & Polyworks Component inspection / Reverse engineering/ 3D Scanning

Manufacturing

-  Quality Assurance: Quality Management System certified to the standards of ISO 9001:2015 & AS9100D
-  Metal fabrication: CNC Mill and Lathe capabilities for quick part turnaround with in-house CAD, CAM and Inspection
-  Sheet metal fabrication: CNC 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, 900ft² shop with 2400ft² attached 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 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
Hardinge HVL-H	11"x18" Manual Lathe
Laser Cutter	51"x71" 150W CO2 Laser
Laser Cutter	12"x24" 40W CO2 Laser
Laser Marking	30W MOPA Laser with Scan Head
Lulzbot TAZ6	11" x 11" x 9.8" 3D printer PLA and ABS
Lincoln Torchmate 4800	48"x96" 80amp CNC Plasma (cuts & marks up to 3/4" THK metal)
TECNA TE90 MKII	50kVa Spot Welder
Miller Dynasty 200DX	200amp SquareWave TIG Welder
Miller Syncrowave 250DX	250amp SquareWave TIG Welder
Millermatic 252	MIG Welder
Tennsmith HBU48-16	61" Box and Pan Brake
Pexto Stomp Shear	36" Stomp Shear
Rotex 18A	0.0625" – 2" 18 station turret punch
DoALL 2013-V	20"x13" Vertical Bandsaw
Grizzly G0561	7"x12" Horizontal Bandsaw
Despatch	18"x18"x18" Oven
Romer arm 7725	7-Axis Ultra-High Accuracy CMM Arm with Integrated Scanner
Faro Vantage E6	Faro Laser Tracker 115' 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	AN, MS, NAS, HiLok, Clickbond, AMP and other specialty aircraft hardware