



10685 E Rocky Hill Rd, Dewey, AZ 86327 | 602-626-0980 | www.goldenfab.com | goldenfab@goldenfab.com
* By Appointment Only *

ABOUT

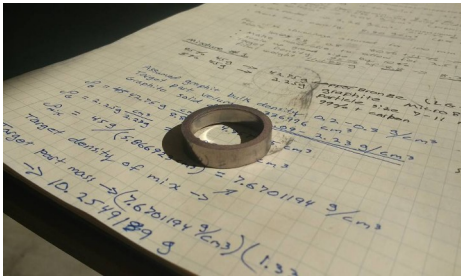
We're an owner-operated small business where engineering, design, and fabrication all happen under one roof, giving you maximum flexibility and quick design iterations. Engineers, machinists, and end-users tend to speak different languages. We understand all three.

QUALITY

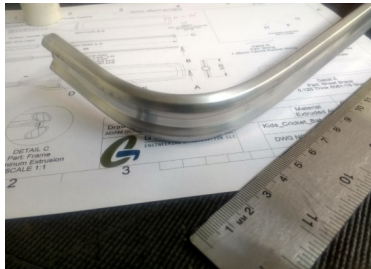
Quality is important to us, which is why we are implementing an ISO 9001-aligned quality management plan across our manufacturing work. Our measuring instruments used for first-article inspections are calibrated and traceable to NIST, giving us confidence that every part is made to spec.

DESIGN SERVICES / PROTOTYPES / SHORT RUN MANUFACTURING

Mechanical part and assembly design, prototyping, and low-volume production are what we do best. From your napkin sketch or an existing design, we can draft CAD models and manufacturing-ready drawings, manufacture your product, and even design retail packaging. Your ideas come to life through in-house precision CNC machining and other manufacturing processes. Our painting, anodizing, powder coating, laser engraving, and pad printing finishing processes give your products a finish that impresses.



Powdered metal part
design / prototype



Design / prototyping of
new sporting racket



3D scan of power tool
for reverse engineering



Prototype part machined from customer drawing



Prototype sheet metal parts to hold PCB in aerospace
electronics enclosure



CNC Machined car emblem



Fabricated light brackets from aluminum, powder
coated, laser engraved, complete with retail packaging



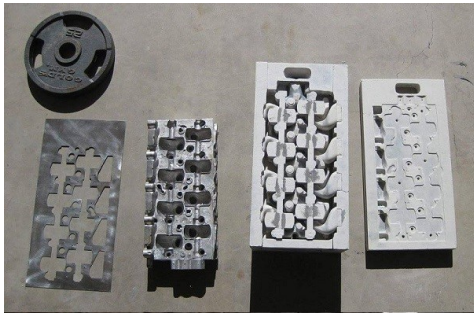
Short run CNC turned parts



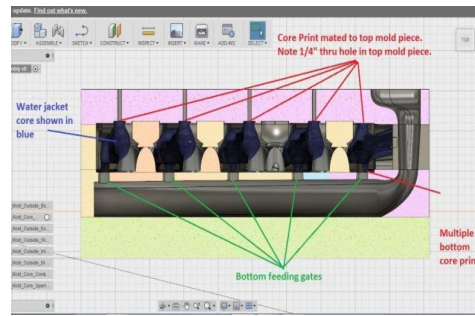
Custom pad printing

ALUMINUM CASTING

We can design your cast part from scratch or reverse-engineer a pattern from an existing part. We fabricate patterns, make sand molds, and cast aluminum all in-house.



Cast automotive cylinder head complete with water jackets (left) | Sand molds and cores (right)



3D model/design of complex mold design



Prototype cast engine dynamometer water brake rotor

AIRCRAFT DISPLAY PANELS

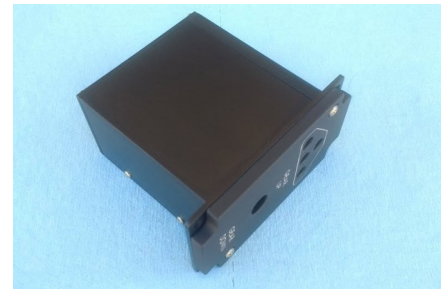
We have developed an in-house process to make custom back-lit aircraft cockpit instrumentation panels.



Aircraft cockpit back-lit panels — DC power & engine/fuel controls



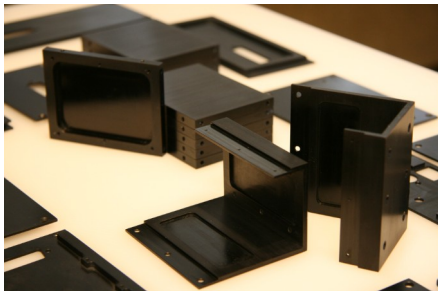
Aircraft cockpit back-lit panels — assorted control panel sets



Prototype landing gear enclosure and back-lit panel

ELECTRONICS ENCLOSURES

We can make your custom enclosure from sheet metal or machined parts.



Aircraft cockpit instrumentation enclosures machined from customer drawings and anodized in-house



Enclosure for an industrial laser-marking system, machined from customer drawings



Control panel for an industrial laser-marking machine, fabricated from sheet metal and machined parts per customer drawings

MEET THE OWNER

Adam Goldenstein

Owner / Engineer



Adam's path started early — growing up on a farm, taking apart anything he could get his hands on, and teaching himself to keep aging equipment running, from working on tractors to rebuilding motorcycle engines before he had a driver's license. That hands-on drive carried him through a BS in Aerospace Engineering at Embry-Riddle Aeronautical University, where he first learned to run a mill and lathe in the school's machine shop. His career took him from running developmental test programs for the US Army, to pilot in command of UAVs overseas — a direct descendant of his childhood love of designing, building, and flying RC model airplanes — to Systems Engineering Focal for FMS software development on business jets. In 2015, he founded Goldenstein Engineering and Fabrication and built it from the ground up in the most literal sense: he personally designed and erected the shop building himself, serving as his own contractor and laborer.

17+ years of combined engineering and hands-on fabrication experience

Engineer, Machinist, Fabricator — Founder of Goldenstein Engineering and Fabrication LLC (2015)

BS in Aerospace Engineering, Embry-Riddle Aeronautical University

Lean Six Sigma Green Belt Certified | Hands on experience based DFM | GD&T (ASME Y14.5) Fundamentals

Prior professional experience: Test Engineer, UAV Pilot, Systems Engineer, mechanic

EQUIPMENT & CAPABILITIES

Machinery & Equipment

Machining & Fabrication

- Kitamura Sonic Mill 3x (CNC Mill)
- Fadal 4020 ext Z (CNC Mill)
- Mazak QT 15N (CNC Lathe)
- *Mitsubishi Wire EDM coming soon!*
- *6oz shot 110 ton plastic injection machine coming soon!*
- Manual Lathe and Mill
- Metal Spinning Lathe
- 48" Box/Pan Sheet Metal Brake
- Press Brake
- Hydraulic Press
- Miller Syncrowave 250DX TIG Welder
- Lincoln Power Mig 180 MIG Welder
- Oxy-Acetylene Torch

Prototyping & Finishing

- Epilog Mini 60W laser engraver/cutter
- 3D Printers
- 3D Scanner
- Powder Coating
- Anodizing
- 2 Stage Painting w/HVLP gun
- Pad Printer

Design & CAM Software

- Alibre Design (3D CAD)
- Rhino CAD
- SprutCAM
- Blender 3D
- GIMP
- Inkscape

Core Capabilities

- CAD modeling & manufacturing-ready drawings
- CNC/manual milling & turning
- Sheet metal fabrication & forming
- TIG/MIG welding & fabrication
- Aluminum casting DFM, pattern design & in-house aluminum casting
- 3D scanning & reverse engineering
- Rapid prototyping & low-volume mechanical part production
- Anodizing, powder coating & painting finishes
- Laser engraving & pad printing

MACHINE SHOP PHOTOS



1,800 sq. ft., climate-controlled facility



Mazak CNC lathe (left) | Kitamura CNC mill (right)



Fadal CNC mill

Concept to finished part — under one roof

602-626-0980 | www.goldenfab.com | goldenfab@goldenfab.com