

# Mechanical Manufacturing

Specializing in precision mechanical manufacturing, we are a trusted partner for military clients, delivering unmatched quality and reliability for defense and security solutions.

## OUR ADVANTAGES



## Services Offerings

### 01. Build to Print Turnkey Manufacturer

- Munitions Trailers
- Weapons Skids
- Missile Adapter/Interface Kits
- Bomb Hoists
- Mechanical Assemblies
- Maintenance Platforms
- Ordnance Handling Equipment
- Tube & Hose Assembly

### 02. Design & Manufacturing of Armament & Ground Support Equipment

- Major Parts & Components
- Aviation Support Equipment
- Armament Weapon Support Equipment

### 03. Engineering

- Legacy Replacement & Remanufacturing
- Parts and Component Design for Military Systems & Subsystems

### 04. Sets, Kits, Outfits & Tooling

- MRO Test Sets
- Mechanical Test Sets
- Electronic Test Sets
- Tooling Sets

## CAPABILITIES

- 3 Axis & 5 Axis CNC Machining
- CNC Lathe Machining
- Manual Machining
- CNC Brake Forming
- Certified Welding (Steel, Aluminum & Exotics)
- Non-Destructive Testing
- Cleaning & Sandblasting
- Mil-Spec Painting (Wet & Powder)
- Certified Weight Testing
- Mil-Spec Packaging
- Assembly & Finalization
- Specialized Tooling, Die & Fixtures

**NAICS Codes** 332710, 334290, 334418, 334419, 335921, 334513, 335313, 335931, 335999, 336413, 811213, 811219

**SBA Business Opportunity Specialist**

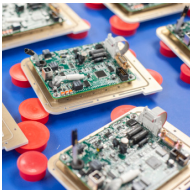
**SCOTT CARLSON**

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# Electro-Mechanical Manufacturing

Kaiva Vertical Lift brings expertise in full service electronic, electro-mechanical manufacturing and assembly. As an AS9100D certified electro-mechanical manufacturer of high reliability electronics, our production, inspection, and testing exceed industry standards.

## Services Offerings



### Electro-Mechanical Assemblies

- Wiring harness, cable & conduit assemblies
- Adapter & connector assemblies
- Panel & switch assemblies
- Box & enclosure assemblies
- Hydraulic & pneumatic equipment
- Air supply regulators
- Resistor assemblies
- Circuit card assemblies
- Printed circuit board layouts
- Electrical test sets



### Electronic Capabilities (EEE)

- High Reliability Electronics
- Electro-Mechanical Assemblies
- Electrical Components
- Advanced Wiring Harnesses
- Cable & Conduit Assemblies
- Adapter & Connector Assemblies
- Panel & Switch Assemblies
- Hydraulic & Pneumatic Equipment
- Air Supply Regulators
- Resistor Assemblies
- Electrical Test Sets
- Power Supplies



### Testing

- Complete test equipment design from specification
- Test program design automatic test equipment
- Environmental Testing
- Environmental Stress Screening
- Non-Destructive Testing
  - Eddy Current Testing
  - Magnetic Particle Testing
  - Penetrant Inspection
  - Radiographic Testing



### Procurement Services

- Sourcing of hard to find, obsolete parts
- Suggestion of replacement parts
- Buy & supply under contracts (lab equipments, electronics parts etc.)
- Hydraulic & pneumatic equipment

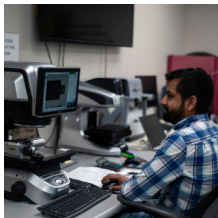
# Reverse Engineering DMSMS

Kaiva Vertical Lift brings expertise in reverse engineering offerings that exceed industry standards.

## Service Offerings

- Technical Data Packages (TDP) Evaluation & Completion
- Source Approval
- Mechanical Design
- DMSMS Management
- Value Added Engineering
- Reverse Engineering
- Obsolescence Resolution
- Engineering Analysis
- Additive Manufacturing
- Mobile Engineering Laboratory
- Remanufacture Solutions
- Lifecycle Sustainment
- Legacy Replacement
- Contracting Vehicle Solutions
- Program Management

## Capabilities



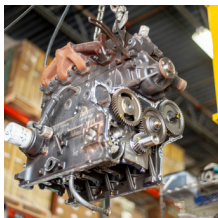
### Reverse Engineering Quality Lab

- 3D Scanning
- Advanced 3D Printing
- Analysis & Testing
- Calibration & Validation



### Prototype Integration Facility

- First Article Inspection & Product Validation
- Remanufacture & Replace OEM Parts
- Refurbishment, Repair & Modernization
- Short-Run Manufacturing



### The 5R Solution®

- Reverse Engineering
- Remanufacture
- Repair
- Recertify
- Replicate



### R.O.P.E.®

- Rapid Obsolescence Planning & Execution
- Evaluates and addresses technical data prior to the manufacturing process

## AWARD PROCESS

Qualified Native American Tribal 8(a) businesses can be awarded sole-source contracts up to \$100M for DoD & up to \$25M for federal & civilian agencies, without J&A, per the revision of Section 811 of the NDAA.



### AGENCY PROGRAM MANAGER

- Establishes Requirement
- Prepares SOW & Procurement Request
- Identifies 8(a) Firm - Market Research



### BUDGET OFFICER

- Authorizes Funding



### CONTRACTING OFFICER

- Identifies 8(a) Firm as the most capable
- Offers the requirement to the SBA for the 8(a) Firm



### SBA

- Accepts requirements on behalf of the 8(a) Firm
- Authorizes agency to conduct negotiations with 8(a) Firm



### CONTRACTING OFFICER

- Issues RFP to the 8(a) Firm



### 8(a) FIRM

- Submits technical and cost proposal to the Contracting Officer in response to the RFP



### CONTRACTING OFFICER

- Performs technical and price analysis



### 8(a) FIRM

- Negotiates final price and deliverables with the Contracting Officer



### CONTRACTING AWARD

- Contracting Officer assembles contract and forwards to SBA
- Government Agency, SBA and 8(a) Firm executes contract

## Sole Source Set-Aside Contract Value Authority

### FAR 19.805 Competitive 8(a); 19.805-1 General

Where an acquisition exceeds the competitive threshold (\$4M), the SBA may accept the requirement for a sole source 8(a) award if the SBA accepts the requirement on behalf of a concern owned by an Indian tribe or Alaska Native Corporation.

## Past Performance FAR

### FAR 15.305(2)(iii)

Past Performance information is one indicator of an offerer's ability to perform the contract successfully. The solicitation provides offerors an opportunity to identify past or current contracts relevant to the requirement and evaluate problems encountered on the identified contracts and the offeror's corrective actions.

## Our Clients



## Past Performances

### Defense Logistics Agency

**Contract Number: SP4701-21-C-0005**

On this Phase II SBIR award, Parts Life, Inc. utilized proven value-added reverse engineering processes, manufacturing experience and lean methodologies for source development to create complete technical data packages, submit SAR packages, and produce low-rate initial samples as needed/requested on multiple NSNs, including seals to support nuclear enterprise, industrial hardware, and hydraulic fittings for NUWC.

The Air Launched Cruise Missile, a critical national asset designed in the 1970s for the B-52, required several OEM part replacements. The Defense Logistics Agency, with the help of Air Force Engineering Support Activity and the F-107 Program Offices, tried for 4 years to develop an industrial base to support these items with no success. PLI was able to reverse engineer the seals, submit complete technical data packages and Source Approval Requests. Within 1 year, PLI became an alternate approved source on the Ram Fin Seals.

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### Defense Logistics Agency

**Contract Number: SP4701-20-C-0074**

On this Phase II SBIR award, Parts Life, Inc. utilized its proven manufacturing experience and lean methodologies for source development to create complete technical data packages, submit SAR packages, and produce low-rate initial samples as needed/requested on TF-33 NSNs.

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### NAVAIR

**Contract Number: N68335-18-D-0071**

Manufacture, assembly, inspection, and delivery of Organizational & Intermediate (O&I) Level Peculiar Support Equipment (PSE) end items for the V-22 Aircraft.

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### Naval Air Warfare Center AD LKE

**Contract Number: N68335-15-D-0016**

This contract is to supply the Government twenty-four different components and thirty-seven hardware items in kit form to CILOP the MHU191/M Munitions Transporter P/N 1500AS100-1 into the MHU191A/M Munitions Transporter P/N 3992AS100-1