Advanced Mission Partners

"PRECISION, INNOVATION & DEDICATION. EVERY MISSION, EVERY TIME."

Mission Statement

Advanced Mission Partners is committed to operating as a trusted strategic partner focused on the design, manufacturing, and testing of high-quality electronic subassemblies and systems for all applications.

Overview

Advanced Mission Partners is dedicated to delivering low-cost, high reliability solutions to our customers. Our infrastructure is designed to support both highly complex mission-critical hardware as well as quick turn R&D efforts. The manufacturing team leveraged over 150 years of combined experience and lessons learned to build a 32,000 sqft state of the art facility. Our technical staff and leadership are dedicated to delivering on customer commitments while maintaining a strong focus on reducing waste and inefficiency.

Core Capabilities

Engineering

- Systems Engineering
  - Requirements Development and Management
  - Verification and Validation
- Electrical, Electronic and Electromechanical (EEE) Parts Selection, Procurement and Analysis
- Electrical and Power Systems Design
- Design For Manufacturability Services (DFM)
- Flight and Ground Systems Integration
- EGSE/STE Design, Development and Maintenance

Electronics Manufacturing

- Manufacturing of Printed Circuit Board (PCB) size up to 20" x 20"
- Quick turnaround & R & D prototypes
- Component placements as small as 0.008" X 0.004" with an accuracy of ±1.4 mil
- High-resolution vision system capable of measuring BGA balls as small as 4 mil in diameter with a 10 mil pitch
- Supportability of 224 unique components in one set up (based on component size) and 30 matrix tray components
- Intelligent electronic feeders
- Traceability from the Circuit Card Assembly (CCA) back to the original reel

Program Management

- Concept to delivery PM services
- Expert planning, execution, and oversight
- Proactive risk analysis and mitigation
- Consistent and timely communication
- On time delivery and budget tracking
- Strategic resource monitoring and allocation
- Stakeholder engagement and relationship management

Contact Us

Jerry Newlin | 410-991-6164 | jnewlin@amp-hq.com
MD: 930 International Dr, Suite 100 Linthicum Heights, MD 21090 | **AL:** 4100 Market St, STE 100, Huntsville, AL 35808

Advanced Mission Partners

"PRECISION, INNOVATION & DEDICATION.
EVERY MISSION, EVERY TIME."

Machine Specs

Machine	Capabilities
 **SQ3000 Multi Function 3D AOI**	• 3D AOI, SPI and PWB CMM capability • High-Resolution sensor capable of inspecting component sizes as small as .008" x .004" • Gage R&R accuracy <10% @ ±3σ (±80 µm process tolerance) • Provides 3D measurements for solder, component height, and component body/lead coplanarity
 **JUKI RS-1RXL Pick and Place Equipment**	• Support for PCB sizes up to 25" x 25" • Placement accuracy ± 1.37 mils (35 µm) • 27mm vision camera for BGA and leaded component placement • BGA ball size 4 mils minimum • BGA ball pitch 10 mils minimum • QFP lead size 8 mils x 5 mils minimum • QFP lead pitch 12 mils minimum • Smallest component size 008004 Imperial (0201 Metric) • Capacity for 224 unique components (8mm reels) and 30 matrix trays • Combined throughput of 58,000 CPH per IPC9850 • Intelligent feeders with full traceability of component placements
 **Heller 1913 MK5 Reflow Oven**	• 26 Independent temperature-controlled heating zones • 3 Top side cooling zones • Zone temperature stability ± 1C • Center board support • KIC SPS wireless smart profiler • KIC PROBOT automatic profile capture • Oven air temperature recorded for each CCA real time. Temperatures are compared to previous known good profiles to validate successful reflow.

Past Performance & Teammates

SwRI Southwest Research Institute · Boeing · Northrop Grumman · Resolution Integrity | Service | Excellence · NASA · Columbus · KBR · Fibertek, Inc. · Hexagon · Onyx

Company Details

UEI: RZJNZDE9K255
NAICS Code: 334418
Cage Code: 9TX45

Registrations/Certifications

- IPC-600
- IPC-610
- IPC-620
- IPC-7711/7721
- ANSI S20.20
- J-STD-001 w/ Space Addendum

Awards/Recognition

- Women Owned Small Business Certified
- Culture Excellence Awards:
  - Work-Life Flexibility
  - Compensation and Benefits
- Robert H. Goddard Awards

SBA WOSB CERTIFIED · Top Work Places 2024 Work-Life Flexibility · Top Work Places 2024 Compensation & Benefits

Contact Us

Jerry Newlin | 410-991-6164 | jnewlin@amp-hq.com
MD: 930 International Dr, Suite 100 Linthicum Heights, MD 21090 | **AL:** 4100 Market St, STE 100, Huntsville, AL 35808