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**SBA:** Small Business  
**DUNS:** MD-08-6145646  
 NC-04-6673198  
 CT-11-820-0324  
**CAGE** MD-3A2K5  
**CODE:** NC-6VGN0  
 CT-979Y7  
**NAICS:** 334418, 334419, 541330,  
 334220, 334310, 334510,  
 334511, 336320, 541512,  
 336413

- ✓ AS9100D
- ✓ ITAR Registered
- ✓ ANSI/ESD S20.20-2014 Certified
- ✓ J-STD-001 Certified
- ✓ FDA Registered
- ✓ NIST 800-171 Compliant
- ✓ Small Business
- ✓ SAM Registered

## CAPABILITIES STATEMENT

ACDi is an agile electronics manufacturing services firm staffed with degreed/certified engineers/program managers and strategically located near the nation's capital and North Carolina providing electronics-based product manufacturing, design and testing services to OEMs in the military, aerospace and commercial industries.

### MARKETS

<b>Government</b>	<b>Aerospace</b>	<b>Telecommunications</b>	<b>Commercial</b>
<b>Defense</b>	<b>Industrial</b>	<b>Life Sciences</b>	<b>Medical</b>

### CORE COMPETENCIES AND DIFFERENTIATORS

Advanced Design & Engineering	Production Capabilities	Innovative Testing Procedures
Concept to Production: <ul style="list-style-type: none"> <li>▪ RF System Design</li> <li>▪ Circuit Design</li> <li>▪ Mechanical Design</li> <li>▪ Design for Assembly</li> <li>▪ PCB Layout</li> <li>▪ Component Selection</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quick Production Ramp-ups</li> <li>▪ Prototype and Volume Production</li> <li>▪ Automated Circuit Card Assembly</li> <li>▪ Chassis and Box Build</li> <li>▪ System Integration</li> <li>▪ Multiple Strategic Locations</li> </ul>	<ul style="list-style-type: none"> <li>▪ Compliance Test Failures</li> <li>▪ System Failure Analysis</li> <li>▪ Component Failure Analysis</li> <li>▪ Regression Testing</li> <li>▪ AOI</li> <li>▪ ICT and Functional Test</li> </ul>
Program Management	Technical Expertise	Superior Quality Control
<ul style="list-style-type: none"> <li>▪ Total Supply Chain Management</li> <li>▪ Integrated Product / Logistics Support</li> <li>▪ Prompt Returns</li> <li>▪ Routine Production Communication</li> </ul>	<ul style="list-style-type: none"> <li>▪ IPC Class 3 / J STD for Critical Military Application Specifications</li> <li>▪ Obsolescence / Long-Lead Mitigation</li> <li>▪ BGA X-Ray and Rework</li> <li>▪ RF / Digital Hardware</li> <li>▪ Fully Integrated CAD Systems</li> <li>▪ Counterfeit Prevention Program</li> </ul>	<ul style="list-style-type: none"> <li>▪ ESD Program</li> <li>▪ Progressive Quality Check</li> <li>▪ Corrective Action for Non-Conforming Material</li> <li>▪ Specialized Packaging Standards</li> <li>▪ RoHS Compliant</li> <li>▪ Nuclear 10CFR Certified</li> </ul>
Value-Added Services		
<ul style="list-style-type: none"> <li>▪ Lot Control and Traceability</li> <li>▪ New Product Introduction</li> </ul>	<ul style="list-style-type: none"> <li>▪ Onsite Tools / Layout Software</li> <li>▪ Industrialization</li> </ul>	<ul style="list-style-type: none"> <li>▪ DFM</li> </ul>

### PAST PERFORMANCE

- CellWatch
- Iridium Satellite Comm.
- Restorative Therapies
- Cubic Corporation
- Jefferson Lab
- Sandia National Labs
- G3 Technologies
- Lockheed Martin
- U.S. Army
- GE Hitachi Nuclear Energy
- Northrop Grumman
- U.S. Navy
- Harris
- Orbis Solutions
- Xerox

## ACDi Services Summary

### SMT Assembly

- Rigid, Flex, Rigid-Flex
- 01005, 0201, High-Pin Count BGAs, Micro BGAs, Part On Part
- In-Line 3D AOI, X-Ray Inspection
- Conformal Coat, Underfill, Potting And Ultrasonic Welding
- BGA / QFN / Connector Removal / Replacement
- 3D Solder Paste Inspection

### Systems Manufacturing

- High-Mix Configurations
- Process Engineering
- Configuration Management, Serialization
- Quick Production Ramp Ups
- 100% Turnkey Solutions

### Engineering Services

- Requirements and Electrical Hardware Design
- Mechanical Design
- Product Evaluation
- Sustaining Engineering
- Test Procedure
- Test Fixture Development

### PCB Layout Services

- High Frequency RF Designs
- High Speed Digital Designs
- Multiple Layers – 26+
- Low EMI Designs For Sensitive Applications
- Stacked, Blind and Buried Vias

### Cables and Harness Assembly

- Complex, Smart Cables
- Ribbon, Coaxial, RF Twisted-pair, Fiber Optic
- Mil-Spec, Medical, Commercial
- Leak / Immersion Testing
- Opens-Shorts and HiPot Testing

### Test and Integration

- Functional Testing
- JTAG Testing
- Flying Probe Testing
- Custom Test Fixture Design
- ICT / Bed of Nails Testing

### Supply Chain and Program Management

- Counterfeit Prevention Program
- Order Fulfillment
- Total-Concept-Engineering / Manufacturing
- Program Management – One Point Of Contact To Manage The Entire Process

