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**SBA:** Small Business  
**DUNS:** MD-08-6145646  
NC-04-6673198  
**CAGE:** MD-3A2K5  
**Code:** NC-6VGNO  
**ISO:** 9001:2008; AS9100  
**ITAR:** Registered  
**FDA & FAA:** Registered  
**NAICS:** 334418, 334419, 334417,  
541330, 334220, 334310,  
334510, 334511, 336320,  
541512, 336413

## 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

Government	Military	Unmanned Vehicles	Commercial	Medical
Defense	Aerospace	Telecommunications	Industrial	Life Sciences

### CORE COMPETENCIES AND DIFFERENTIATORS

Advanced Design & Engineering	Multiple Strategic Locations	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> </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

Government & Military		Systems Integrators	
<ul style="list-style-type: none"> <li>USAF</li> <li>Jefferson Lab</li> <li>NRL</li> <li>FAA</li> <li>US ARMY</li> <li>NAVSEADoD</li> </ul>	<ul style="list-style-type: none"> <li>FBI</li> <li>USSOCOM</li> <li>NIST</li> <li>General Dynamics</li> <li>Harris</li> <li>BAE Systems</li> </ul>	<ul style="list-style-type: none"> <li>L-3</li> <li>Raytheon</li> <li>Lockheed Martin</li> <li>Northrop Grumman</li> </ul>	<ul style="list-style-type: none"> <li>SAIC</li> <li>EXELIS</li> <li>Sotera Defense</li> </ul>

## ACDi Services Summary

### SMT Assembly

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

### Systems Manufacturing

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

### Product Engineering

- Concept Development
- Product Development
- Product Evaluation
- Technical Management
- Hardware Design

### Engineering Services

- High Frequency, RF Designs
- High Speed Digital Designs
- Multiple Layers – Up To 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
- Hi-Pot Testing

### Test and Integration (All on-site!)

- Functional Testing
- JTAG Testing
- Flying Probe Testing
- Custom Test Fixture Design
- ICT / Genrad Testing

### Supply Chain and Program Management

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

