

## ELECTRONIC ASSEMBLY MANUFACTURING SERVICES

**Reliable. Precise.  
Built for Mission-Critical Success.**



# OVERVIEW & CAPABILITIES

## Overview

When lives depend on your reliable electronics, choose ND Defense to manufacture mission-critical electronic systems. With the potential consequences of electronic failure, the importance of quality, precision, and manufacturing excellence cannot be overstated. Our US-based manufacturing ensures compliance with ITAR and other critical regulations and standards for secure and dependable products.

ND Defense has a long-standing history of supporting mission-critical systems, including tactical wheeled vehicles. Our prototype lab in Michigan, staffed by skilled electrical engineers, enables design modifications and engineering support for DFM (Design for Manufacturing) and DFA (Design for Assembly), ensuring your project's success from start to finish.

## Manufacturing Capabilities

- Circuit Card Assembly
- Wire Bonding & Sealing
- Wire Harness Assembly
- Product Support & Depot-Ready Repair
- Cable and Wire Management, including Labeling, Cutting, Stripping, Terminating, and Heat Shrinkage
- Drawing Generation using CAD
- Chafe Protection for Cables and Wires
- Prototyping Services

## Benefits of Partnering with ND Defense

- **Made in the USA:** Quality you can trust
- **Low Volume Production:** Tailored production scale for flexibility and cost savings
- **CMMC Compliant:** Ensuring industry-standard cybersecurity practices
- **Controlled Environment:** Air-conditioned facility
- **Central Location:** Strategically positioned in the US to expedite delivery and reduce logistics costs
- **On-Site Engineers:** Faster prototyping, design optimization, and immediate problem-solving

## Market Capability





## QUALITY ASSURANCE

### Quality Policy:

Exceed customer expectations

### Quality Vision:

Be recognized by our customers as their best supplier

### Quality Mission:

Make quality our competitive advantage

### Quality Objective:

Achieve total customer satisfaction

## Quality Capabilities

- **ISO 9001: 2015 Registered QMS:** Rigorous quality management system
- **Versatile Torque Programs:** Options for manual and electronic torque applications
- **IATF 16949 Commitment:** Full conformance by 2026
- **On-site CWI:** Certified Weld Inspector and welder training program ensure welding excellence
- **Calibration Lab:** Equipped for torque validation and analyzation to maintain precision
- **IPC J-STD-001:** Requirements for soldered electrical and electronic assemblies
- **IPC-A-610:** The most widely used inspection standard in the electronics industry
- **IPC J-STD-001HS:** Soldered electrical and electronic assemblies for space and military applications.

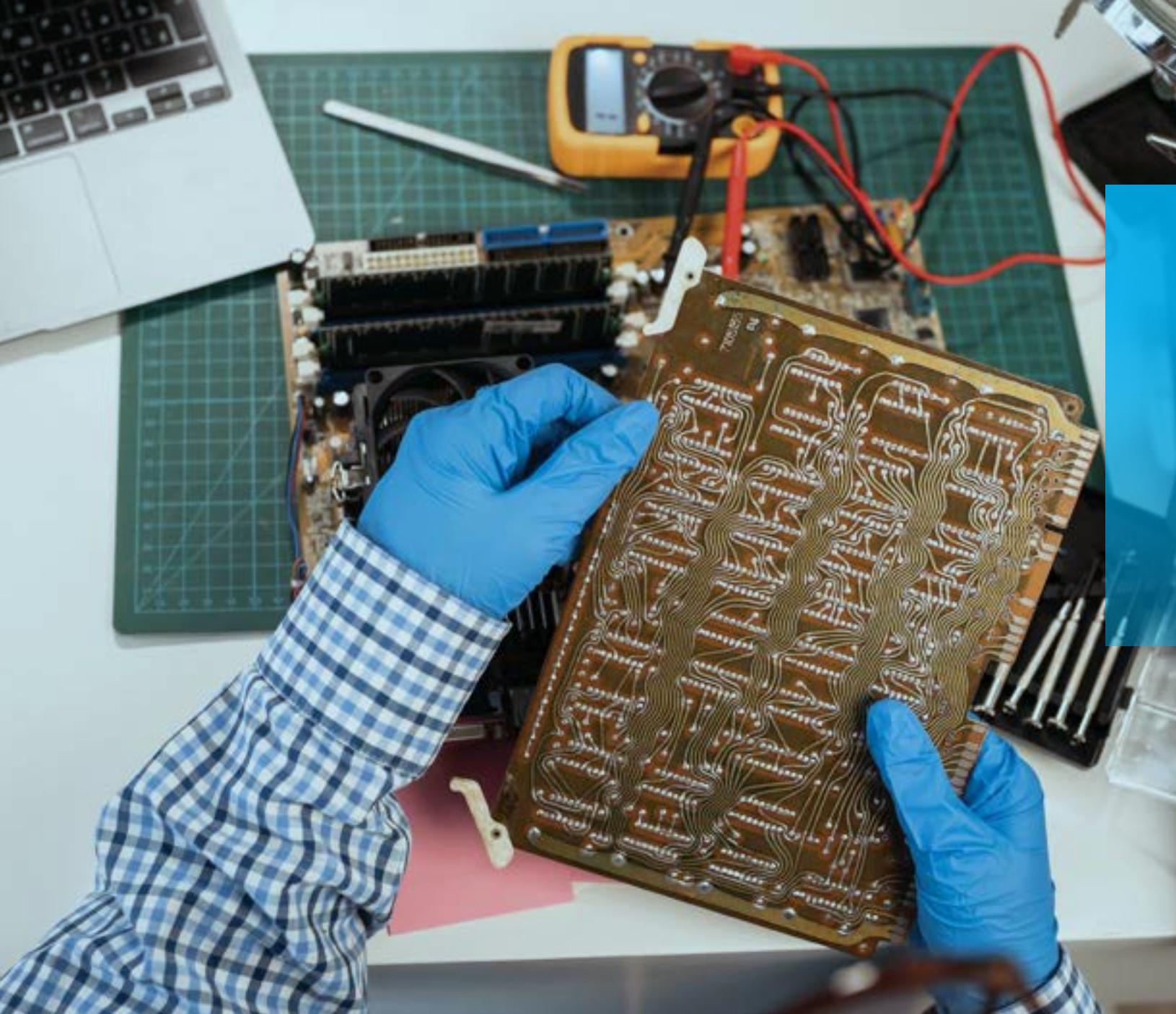
- **IPC/WHMA-A-620:** Requirements and acceptance for cable and wire harness assemblies.
- **IPC-7711/7721:** Rework, modification and repair of electronic assemblies.

With our ISO 9001: 2015 registration, versatile torque programs, and commitment to achieving IATF 16949 certification, ND Defense ensures the highest standards in quality management. Our on-site Certified Weld Inspector and calibration lab further demonstrate our dedication to providing dependable, precise, and competitive products that meet every customer requirement.

## Environment, Health & Safety Commitment

ND Defense is dedicated to fostering a culture of safety and environmental responsibility for our employees and contractors through comprehensive training and policy development. We integrate sustainable practices into every process to provide advanced services while conserving resources for the future.

Our commitment to Environment, Health, and Safety (EHS) includes risk analysis and mitigation to minimize incidents and promote environmental stewardship. ND Defense actively seeks to meet and exceed all applicable EHS requirements, with performance monitored through ongoing evaluations and management reviews.



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