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# **iCONN Systems, LLC** *Overview Presentation*

# 2014



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## Cost Effective, Application Specific, Connector & Cable Assembly Solutions for You

iCONN Systems, LLC is a custom engineered interconnect solutions design company that focuses on the manufacturing of electrical and electronic connectors, over-molded and discrete cable assemblies and value added turnkey products. Our design process continuously provides customers with high quality, cost effective designs for their specific applications, backed by superior customer service.

### QUALITY POLICY:

*"iCONN SYSTEMS, LLC 's quality policy is to provide customers with high quality interconnect solutions that are delivered on-time with a commitment to continuous improvement."*

# iCONN Systems - Lombard, Illinois


Made in the  
USA!



iCONN Systems, LLC proudly  
resides within a 25,000 square  
foot manufacturing facility in the  
western suburbs of Chicago.



# Core iCONN Markets

- Automation
  - Communications
  - GPL / GLS
  - Industrial Electronics
  - Marine
  - Medical
  - Monitoring / Inspection
  - Off Road, Truck, Bus & Recreational Vehicles
  - Public Safety
  - Self Contained Breathing Apparatus (SCBA)
  - Sensors
  - Signage / Lighting
  - Other Niche Product / Market opportunities
- 

## **iCONN System's Six Step Custom Engineered Solutions Process**

Not all applications are the same. Our knowledgeable product development team works with you through our step-by-step engineered solutions process to develop the appropriate product that fits your application and budget.



# iCONN Engineering Services

*Providing High End Customer and Application Oriented Connector Solutions*

iCONN delivers state-of-the-art connector designs and solutions that address harsh environments, abuse, temperature extremes, even direct fire. Our value added engineering philosophy directly impacts product performance and reduces warranty issues for our customers.

## **Core competencies:**

- *Mechanical Engineering*
- *Electrical Engineering*
- *Electrical Connector Solutions*
- *Electrical Connector Design*
- *Manufacturing Tooling and Mold Design*

## **Using Sound Disciplines:**

- *Failure Mode and Effects Analysis (XFMEA)*
- *Design for Manufacture and Assembly (DFMA)*
- *Voice of Customer (VOC)*

## **Established Industry Experience:**

- *NIOSH*
- *SAE*
- *UL/CSA*
- *IEC*

# iCONN Engineering / Product Development Resources:




## Product Design & Development:

- *CAD – Solidworks V2013*
- *CAD – Pro-E*
- *Project Management – Basecamp (Web Based)*

These Programs allow our design engineers to visualize your product by creating 3D models, extensive drawings and interactive communication with our customers.

## Prototyping:

- *CAM: SolidCAM V2013 with iMachining*
  - *Stereolithography (SLA)*
  - *Full Part Fabrication Equipment*
    - *CNC Bed Mill*
    - *CNC Swiss Screw Machine*
- 





# iCONN Engineering / Product Development Resources (Cont.):

## Product Testing

- **Electrical:**
  - High Potential
  - Insulation Resistance
  - Endurance Testing
  - Up to 5000 Amp Short Circuit Testing
  - Temperature Rise
- **Mechanical:**
  - Impact
  - Vibration
  - Durability
- **Environmental:**
  - Hi/Low Temp w/ Humidity
  - IPXX Testing
  - Salt Fog

## Tooling Design & Development

- **Tooling types**
  - Component molds
  - Over-molds (Insert molding)
  - Assembly tooling
  - Solder pallets for automated soldering
  - CNC Swiss programming
- **Simulation CAM**
  - Solidworks Plastics Mold Flow V2013
  - DelCAM Part Maker V2014



# iCONN Systems Operations:



*iCONN's 8 production cells, flexible equipment, cross-trained employees, video-based time & motion study software and paperless systems help ensure that iCONN is equipped to make high quality products in a timely manner at a minimal cost.*

## Lean Manufacturing

- Cellular Production Flow
- 5S
- Kanban

## Production Capabilities

- General Wire & Cable Assembly Equipment
- Wire Processing Equipment
- Over molding
  - High Pressure
  - Low Pressure
- Selective Solder Machine



# iCONN Systems Operations (cont.):

## Vertical Integration

*Through vertical integration, our dependency on 3<sup>rd</sup> parties is reduced. We can customize components without the required minimums and are not dependent on the lead times of 3<sup>rd</sup> party vendors.*



- **Machining**

- CNC Swiss Lathe (up to 1 ¼ inch diameter)
- Selective Soldering Station





# iCONN Systems Operations (cont.):

## Component Molding Capability



- **Component Molding**
  - Quick Turnarounds
  - Customized Versions

*iCONN has diverse experience in designing and manufacturing molded cables for a variety of commercial, consumer electronics and industrial / OEM applications that may require prototypes, quick turn, low or high volume production.*

Low Pressure Overmolding



Hi-Pressure Overmolding

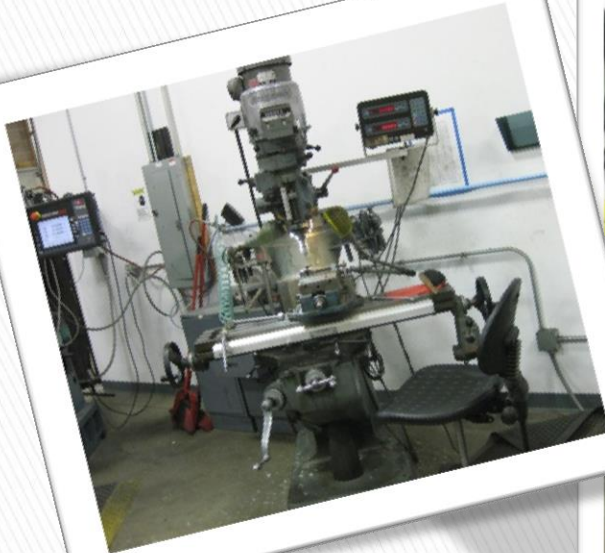


# iCONN Systems Operations (cont.):

*iCONN Systems designs the necessary tooling  
and provides functional prototyping to insure  
your project's success!*

- **Tool Room**

- Fixture Manufacturing
- Mold Repairs
- Mold Manufacturing
- Capability to be added  
in 2015



# Customized Customer Inventory Stocking Programs



## Our Product Inventory Stocking Programs Include:

### ☐ Kanban Programs

At our facility, we can manufacture and store inventories that can be available on a Just In Time (JIT) basis. We can accept releases via phone or email.

### ☐ Blanket Orders

iCONN can manufacture and inventory our product needs at our facility to fulfill your manufacturing scheduling requirements.

### ☐ Consignment Stock

iCONN can manufacture cable assemblies and connectors on a consignment basis. Inventory may be stocked at either your facility or at our warehouse.

### ☐ Custom Program

iCONN can design any inventory program specific to our customer's needs.

## **#1 GOAL: Provide Superior Product and Customer Service**

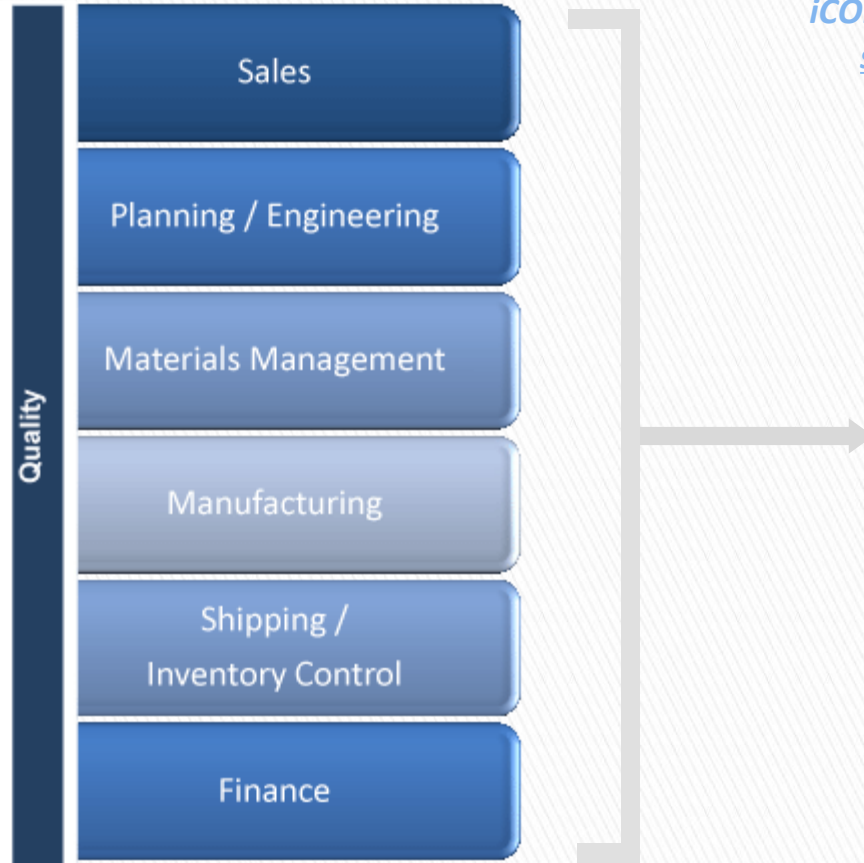
*We work closely with our customers to understand what their needs are in order to develop a customized inventory program.*

### ***What does this mean for you?***

*Shared commitment to controlled inventory stocking to ensure we have the appropriate amount of inventory based upon your turn around time which in turn reduces your costs.*

# Total ERP System

## ERP System Integration



*An integrated ERP system is incorporated throughout all of iCONN Systems' function in support of our goal to offer superior products and services to our customers.*

- MRP
- Capacity Analysis
- Production Planning
- Purchasing
- Inventory Control
  - Cycle Counting
- BOMs
- Routers
- Labor Collection
- Performance Evaluation – Std vs. Actual
- Custom Report Generator
- Dashboard / Metrics



# Quality Achievements

2014

- UL recognized Wiring Harness manufacturer (UL 817) (in progress)

2013

- ISO 9001:2008 Certified
- Quality Leadership 100 (Quality Magazine)

2011 / 2012 / 2013

- Recipient of Tyco / Scott Safety Supplier of the Year Award and World Class Rated Supplier



ISO 9001:2008





# The Standard in interCONNect Solutions...

*Thank you for your time and interest.*