

# Manuel Long

## Field service Engineer -

Palatine, IL 60078

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To continue working as an automation technician including programming, testing, analyzing failures, and repairing systems. Utilize my experience troubleshoot electro-mechanical and electronic equipment.

### WORK EXPERIENCE

#### Field service Engineer

Techlogic - Oakdale, MN - 2015-12 - Present

- Install and maintain sorter system for the library system in Chicago, IL
- Troubleshoot and repair malfunctioning equipment VFD Stepper Drive
- Do quarterly PM on the sorter machine
- Keep the sorter machine properly in order
- Train staff on running the system properly

#### Field Service Engineer

MC MACHINERY WOODDALE IL - WOODDALE, IL, US - 2013-05 - 2015-12

- Install and service Automation Martial Handle system for Laser Machine.
- Work with 208 Three Phase motors with brake systems
- Work with encoders Mitsubishi frequency drives.

#### Electrical Automation Technician

Dematic Corp - Grand Rapids, MI - 2012-10 - 2013-02

Customer Support (Contract)

- Work with PROFIBUS network Can network Conveyor systems Pick Station
- Controllers A/B VFD, A/B PLC's and
- Multishuttle storage and retrieval vehicle

#### Maintenance Technician (Took Dematic position)

Dr Pepper Snapple Group - Northlake, IL - 2010-07 - 2012-10

- Replace electrical parts
- Overhaul filler machines for the beverage industry
- Troubleshoot level transmitters
- Work with Allen Bradley frequency drives Flex 160, 40, 70 used in packing machines for the bottle industry
- Work with PLC-5, SLC-500 and Devicenet RSLinx HMI

#### Senior Test Technician

Emerson Network Power - Elmhurst, IL - 2008-11 - 2010-02

Lay off due to work slowdown)

- Testing panel controllers for standby generators
- Doing point to point testing making sure all the devices are the same as on the BOM
- Wire Electrical panels for 480 three phase wye connection to simulate breakers opening and closing with relay.

- Test controllers with various PLC's such as Horner controller. Worked with associated Digital System HMI which ran Cscape software.
- Tested panel controllers that had GE 90/30 PLC's.
- Uploaded software to the various PLC's for I/O and system testing.
- Paralleled generators to synchronize them on the bus.
- Perform field work pulling old systems and replacing with new power generators.

### **Field Service Engineer**

Ringwood Company - Bedford Park, IL - 2007-03 - 2008-09

Lay off due to work slowdown)

- Work on adhesive machines in the corrugated industry.
- Troubleshoot adhesive systems using PLC-5, 500, 5000 and MicroLogix controllers.
- Install and test machines that were being shipped to the customer using FactoryTalk to view studio station, and the run time system.
- Install IP addresses using Boot P and RSLinx to find IP addresses on the network for controllers.
- Calibrate and install probes, ultra sonic level probes, load cells and level transmitters.
- Work with 3 phase motor troubleshooting VFD replacing pneumatic pump and control valves when applicable.

### **Electrical/Automation Maintenance Technician (Left for PLC**

FIC America - Carol Stream, IL - 2005-04 - 2007-03

work with Ringwood)

- Maintain and troubleshoot Mitsubishi motor drives including repairing spot welding equipment, CNC pipe bending machines, and muffler curling machines.
- Maintain, repair and troubleshoot Mitsubishi PLC's, MotoMan robots and servo drives.

### **Robots Technician**

PICO/Comau - Chicago, IL - 2004-09 - 2005-01

Automatist (Contractor)

- Produced parts that use spot welding equipment with robots.
- Maintenance and troubleshooting of Fanuc robot centerline weld equipment. Included weld guns and smart electros including touch-up, set-up, reset faults and proofing the program.
- Work with Allen Bradley PLC's and RS Logix 5000. Troubleshooting the line by changing the online program to make sure the line continued to run accurately. Also work on the servo system.

### **Maintenance Specialist (Contractor)**

Auto Specialties - Alsip, IL - 2003-11 - 2004-08

- Implement retooling equipment which included aftermarket brake rotor by set-up and installing mills and, lathes with Fanuc and Yaskawa CNC controllers.
- Maintain Reliance, Indramat and Allen Bradley servos, three phase motor 440vac conveyor balancers with Allen Bradley and Siemens controls, and CNC's with multiple drill spindles that use Allen Bradley SLC controllers, etc.
- Perform daily maintenance on equipment that include troubleshooting Kakato machines.
- Wired up the machine for high voltage 4440vac, 520vac using transformers to step the voltage up.

### **Cable Installer (Contractor)**

All Com - St. Louis, MO - 2003-07 - 2003-11

- Perform Cat5 installation and terminations.
- Install video, data cable and fiber optics.

- Utilize knowledge of power meter, design wiring, testing, documentation, electronics, hubs, switches and routers.

### **Field Service Technician (Contractor)**

BELL + Howell Company - Lincolnwood, IL - 2002-03 - 2002-10

- Travel throughout the United States installing, configuring and testing automated mail on Merlin machines for the United States Postal Service.
- Use technical manuals, diagnostic software, voltmeters, electronic training and test equipment to troubleshoot the machines.
- Perform site surveys to coordinate the computer network and automated mail machines installation and start-up for the engineering, technical, administrative and operations staff.
- Configure registry and IP address.

### **Maintenance Mechanic**

Weber Grill - Palatine, IL - 2001-11 - 2002-03

- Maintain Fanuc robots, and pick/place robots.
- Troubleshoot three phase motor, electrical equipment and servo systems.
- Initiate changes necessary to comply with company standards.

### **Automation Technician (Contractor)**

Mid-West Automation Systems - Buffalo Grove, IL - 2001-04 - 2001-11

- Install electrical wiring for motor controllers that communicated with PLC's.
- Review pneumatic, electrical diagrams for automation equipment and panel layouts then put into operation any necessary changes.
- Troubleshoot equipment.

### **Field Technician/Technical Support Specialist (Contractor)**

Rapistan Systems - Grand Rapids, MI - 2000-08 - 2001-04

- Install automated flat sorter machines for Northrop Grumman and Seibolt companies.
- Major liaison between Northrop Grumman, Seibolt and the United States Postal Service.
- Create daily reports and troubleshoot equipment when required.

### **Automation Technician (Contractor)**

Cox Automation - Chicago, IL - 1999-09 - 2000-08

- Install and build electrical wiring for motor controllers and three phase wiring on conveyor systems.
- Design brackets and stands for systems.

### **Electrical Technician (Contractor)**

Tava Technologies - Westmont, IL - 1999-03 - 1999-06

- Configure inputs and outputs on Allen Bradley PLC 500 machines.
- Perform instrumentation calibration with RSLogix 5.
- Upgrade the water treatment plant.

### **Field Service Engineer (Contractor)**

Mitsubishi - Wooddale, IL, US - 1998-09 - 1999-01

Travel throughout the United States updating EDM wire machines with Y2K software.

### **Technical Support Specialist (Contractor)**

Siemens - 1997-04 - 1998-09

Travel throughout the United States training supervisors and maintenance personnel on small parcel bundle sorter conveyor systems for the United States Postal Service.

### **Machine Mechanic (Contractor)**

Rank Video - Northbrook, IL - 1996-06 - 1996-11

Maintain packaging, label stickers, heat shrink, tunnel, Markem, ink code printers and Laser Mark machines.

### **Electrical Technician (Contractor)**

K&F Printer Systems International - Granger, IN - 1995-09 - 1996-06

Install control panel wiring for Allen Bradley SLC 500 and GE Fanuc 30/90 PLC printing machines.

## **EDUCATION**

### **Certification in Mechanical Blue Print Reading**

Allen Bradley School - Burr Ridge, IL  
2001

### **Certification in Automation**

William Rainey Harper College - Palatine, IL

Indiana Vocational Technical College - South Bend, IN

### **Certification in PLC**

DeVry Institute of Technology - Chicago, IL

## **SKILLS**

Allen Bradley, Allen Bradley PLC 5, Building automation, Fanuc, GE Fanuc

## **ADDITIONAL INFORMATION**

Computer Skills:

Microsoft Word, Excel, Power Point Outlook, Internet Explorer, wireless connection  
Programmable Controller Allen Bradley PLC 5 RS 500, 5000 Versa View,  
Panel View, GE Fanuc Controller 9030, Versamax, software Proficy, and Horner Controller  
Software Cscape with Touch screen Operator Control Station.

Interest: Building automation equipment, programming PLC's and working with computers.