



Maithilee Devulkar

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EDUCATION/TRAININGS

- International Technological University, San Jose, California, USA 2015
Master of Science (MS) in Electrical and Electronic Engineering
- Pune University, Pune India 2010
Bachelor of Engineering (B.E) in Instrumentation & Control
- *Trainings-*
 - Yokogawa Centum 3000 DCS & PLC* 2010
 - Basic Kuka Fundamentals* 2015
 - Basic Fanuc Fundamentals* 2016

RELATED WORK EXPERIENCE

- 1) **Sr. Controls Engineer - Powertrain,**
Tesla Motors, Fremont, CA, USA **March 2018 – Present**
 - PLC programming for Allen Bradley/Rockwell CompactLogix, ControlLogix, SmartGuard, GuardLogix.
 - Basic robot programming for Fanuc robots and interfacing with the PLCs.
 - Motion controls – Allen Bradley/Rockwell PowerFlex40 VFDs and Kinetix Servos.
 - Vision controls – Poke yoke and barcode applications using Keyence, Cognex cameras and vision systems.
 - HMI programming using Allen Bradley/Rockwell FactoryTalk ME, Wonderware and Ignition.
 - Work with communication protocols like EthernetIP, Devicenet and serial RS 232.
 - Safety PLC, and safety devices like Euchner gates, safety remote point IO, Pilz switches for doors, Fanuc DCS.
 - Programming using ladder, FBD and SFC.
 - Other devices like Atlas Copco Torque runners, Balluff IO blocks, SMC IO blocks, Analog displacement sensors.
 - Lead Projects, guide the junior engineers and manage vendors.

- 2) **Controls Engineer - Powertrain,**
Tesla Motors, Fremont, CA, USA **June 2016– March 2018**
 - PLC programming for Allen Bradley/Rockwell Compact Logix, Control Logix, SmartGuard, GuardLogix.
 - Basic robot programming for Fanuc robots and interfacing with the PLCs.
 - Motion controls – Allen Bradley/Rockwell PowerFlex40 VFDs and Kinetix Servos.
 - HMI programming using Allen Bradley/Rockwell FactoryTalk ME, Wonderware and Ignition.
 - Work with communication protocols like EthernetIP, Devicenet and serial RS 232.

- Safety PLC, and safety devices like Euchner gates, safety remote point IO, Pilz switches for doors, Fanuc DCS.
- Programming using ladder, FBD and SFC.
- Other devices like Atlas Copco Torque runners, Balluff IO blocks, SMC IO blocks, Analog displacement sensors.

**3) Manufacturing Equipment Engineer – Body Center,
Tesla Motors, Fremont, CA, USA**

Sept 2014 – June 2016

- PLC programming for Allen Bradley/Rockwell Compact Logix, Control Logix, SmartGuard, GuardLogix.
- Basic robot programming for Kuka and Fanuc robots and interfacing with the PLCs.
- Motion controls – Allen Bradley/Rockwell PowerFlex40 VFDs and Kinetix Servos.
- Vision controls – Poke yoke and barcode applications using Keyence, Sensopart, Cognex cameras and vision systems.
- HMI programming using Allen Bradley/Rockwell FactoryTalk ME, Wonderware and Ignition.
- Work with communication protocols like EthernetIP, Devicenet and serial RS 232.
- Safety PLC, and safety devices like Euchner gates, safety remote point IO, Pilz switches for doors, Kukasafe Fanuc DCS.
- Other devices like Atlas Copco Torque runners, Balluff IO blocks, SMC IO blocks, Analog displacement sensors.

**4) Software Engineer,
KPIT Cummins, Pune, India**

July 2012 – April 2013

- PLC programming for Schneider Quantum controllers.
- Ladder and FBD programming.
- HMI programming using Concept software on the Advantech HMIs.
- Work with communication protocols like EthernetIP and serial RS 232.
- Studied P&IDs and wiring diagrams before programming the PLCs.

**Project Engineer,
Cybernetik Technologies Pvt. Ltd. Pune, India.**

Oct 2010 – July 2012

- Studying the P & ID and making Bills of Material as per the requirements, Controls Panel Designs and devices selections (PLCs, HMIs, sensors etc.), Conducting FATs and documenting them by creating IQ, OQ and DQ.
- PLC programming for Allen Bradley/Rockwell MicroLogix, Siemens Simantic S7 200, Mitsubishi PLCs.
- Motion controls – Allen Bradley/Rockwell PowerFlex40 VFDs Mitsubishi FR-D VFDs and Siemens Micromaster VFDS.
- HMI programming using Allen Bradley/Rockwell FactoryTalk ME, Beijer HMI using E-Design and MELSEC FX-3U.
- Work with communication protocols like EthernetIP, Serial communications (RS232 and RS485) and Modbus.