

**Balaji K**

Chennai - 600119

**SUMMARY**

Motivated Hardware and Customer Supporting experienced with Notebook, PC, and Variant Design tools. Agile-Scrum team player expert at fixing bugs and testing with functionality. Enjoys working with the software teams at initial bring up and Product Readiness Workshops. Has a passion for building the hardware that brings software to life. Experience and expertise includes:

- Schematics Design
- OrCAD
- Express PCB.  
Pspice Analog simulation
- Pro E
- PCB Design Tools
- Pads
- Allegro
- Altium & CAMCAD

**WORK EXPERIENCE**

**American Megatrends India Pvt. Ltd., Chennai,**

**2008-Till Date**

*Hi-tech engineering and Software solutions to worldwide.*

**Module Leader Testing**

**2017-2018**

- Product compliant activity of EMI/EMC IEC 60601 & FCC required standards testing on BOLT products and precautions learned of electronics and Mechanical design.
- Work independently with Engineering to develop manufacturing test requirements for new products.
- Validation Testing for Electronics, Firmware, Algorithm, IOT application in different Operative System with analyzing test methods and document creations.

**Senior Test Engineer**

**2012-2017**

- Involved preliminary proof of concept and Testing and assembling on QTXP completion of variant products using with Freescale controller & IMX6 processor.
- Variant Product(Chest ECG, Spirometer, Infrared Temperature, Oscope, Urine analyzer, Blood Pressure Monitor and Spo2 of testing on hardware board level and integrated with firmware and application.
- Involved to collection of different condition reading to train the algorithm.
- Serve as a senior member of a team in the development of production test equipment, test programs, and debug processes for new products and releases to internal manufacturing or external contract manufacturer.

**Test Engineer**

**2010-2012**

- Research and monitoring of Fuel monitoring system & Immobilizer.
- Worked closely with Design team to Design Advance Felt management & Fuel Monitoring tracking and testing adapt test methodology for releasing Product.
- Validate of hardware assembly In-House testing and integrated with firmware testing.

**American Megatrends India Private Limited**

Kumaran Nagar, Semmenchery, Chennai (TN) - 600119

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### **Product Support Engineer & Field Support**

**2008-2010**

- Senior level engineer worked closely with Product Research & development and New Customizations requirement hardware Building on controlled (LPC & ARM) with Processor (Q2501 & Q2686) based on GPS System & Remote Temperature Monitoring System.
- Involved Proto Design level of Product Assembly & integrated testing of mechanicals, electronics, Firmware & Application for Performance evaluation.
- Given Demonstration of customizing devices as per specific requirements in Client places and gave technical support for any new requirement.
- Traveled widely commissioning and servicing Transport systems in a variety of industries.

### **International Component India Private Limited., Chennai**

**2007-2008**

*Electronics Manufactured for Medical and Emergency Home Appliance.*

### **Machine Operator**

- Supervised of automotive Machine (SMT & Wave soldering Machines) operating and setting and Production control.

### **Product Engineer**

- Debugging on proto device and acquisition, and assembling. Served as a process development engineer for new and existing production lines.

## **EDUCATION**

### **MIE (Mechanic Industrial Electronics)**

NTC- National Trade certificate of India Guindy Chennai

### **B, SC-Electronic Science**

Directorate of Distance Education, Annamalai University Chidambaram

### **MBA-System Management (Under Studying)**

Directorate of Distance Education, Madras University Chennai

## **SOFTWARE & CERTIFICATIONS**

- IEC 60601 and FCC product compliant standards of 4th Editions.
- Rowley Cross Working (JTAG) For Flashing and Debug.
- MTLAB using with Analog signal Noise level sensitivity analyzing.
- performed ISO 9001:2015 Quality Management System
- Product Assembly of IPC A-610, IPC-A-620, IPC J-STD-001
- Basic programming knowledge and Troubleshoot on C, Java and HTML

## **HARDWARE**

PCB design: Debug cards for data logging (PCI, LPC, USB, TTL, I2C interface)  
Electronic test equipment. (Oscilloscope, logic analyzer, Precision Meter, Function Generator, Spectrum analyzer, Medical Simulator... etc) Product Controls.

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