

Manikandan D

Villupuram - 606207.

SUMMARY

To successful in the area of Quality engineer, hardware and testing in an Electronics industry. For utilizing my aptitude fully in quality, hardware, and testing department. Enjoys working with the firmware teams at initial bring up and Product Readiness Workshops. I aspire for a career, where my academic background and professional experience will enable me to contribute to the growth of the organization. Experience and expertise includes:

- Mat lab Programming testing
- Creating homemade PCB
- OrCAD Capture tool
- Debugging and rework
- Knowledge about Medical devices
- PCB artist design and viewer tool
- Testing in PIC32 controller
- Testing in ARM controller

WORK EXPERIENCE

American Megatrends India Pvt. Ltd., Chennai

2016-Till Date

Leader in Embedded, BIOS, Mobility Solutions, Data Storage Solutions and Healthcare IT Solutions.

Project: AMI BOLT (Spirometer, Chest ECG, Temperature, BP, SPO2, IRT)

Role: Senior Testing Engineer

- BOM verification and updated
- Schematic symbol verification using OrCAD capture
- Layout verification using Allegro PCB viewer
- Component kitting as per the BOM
- Visual Inspection of Soldering defects as per IPC Standards
- Resistance measurement, DNP list verification, Voltage measurement, Ripple measurement
- Functional test and Bare board testing
- Troubleshooting and debugging the circuit board

Project: AMI VitalsFit and AMI VitalsFit lite

Role: Senior Testing Engineer

- Schematic symbol verification using OrCAD capture
- Prepare the bill of metrical document
- Bare board testing and voltage testing
- Troubleshooting and debugging the circuit board
- Flashing and updated the device using Rowley cross network software
- SMD- chip soldering and Pin through Hole Soldering. Assemble the mechanical setup
- Performance test like validate the ECG, Oxygen saturation, pulse rate, body temperature and pedometer (Recording the number of steps)

American Megatrends India Private Limited

Kumaran Nagar, Semmenchery, Chennai (TN) - 600119

Tel: [+91] 44-66540922 Fax: [+91] 44-66540901

Vionix Technologies (P).Ltd, Chennai -600041

2013-2016

Project: ATA, SATA, ESATA Storage device and CF to SD Adapter

Role: Hardware and Testing Engineer

- Draw and updated the schematic circuit using OrCAD capture software
- Verify the Gerber file using viewmate software.
- Verify the signal length and distance using Allegro PCB design tool
- Testing the multimedia device using USB ,ESATA, SATA and ATA mode
- Bare PCB Test which are used for verification of PCB boards.
- Trouble shooting and debugging the circuit board.

Project: Cyber Switching (ePower PDU, Submeter and Multiphase meter

Role: Testing Engineer

- Troubleshooting and debugging the circuit board Monitoring the current (Amp), voltage, kW and kWh value
- Testing the Web page option and LCD display parameter.
- Testing the production tool, manufacturing tool , outlet select tool and Flash tool
- Control the (ON/OFF) relay function and alert function
- Monitor current individual by outlet and also provide virtual circuit breaker protection.
- Flashing the HEX and Bin file using flash tool application.
- Monitor the daily, monthly and yearly graphical report for peak voltage, current consumption, and cost of the kWh

Coramandel Electronics, Chennai-600 096 (ISO 9001-2008)

2011-2013

Project: Electronic Component Assembling

Role: Quality Engineer and NPI Engineer

- Kit Receiving- kit receiving as per DC customer end include PCB and layout sheet.
- Prototyping - Assemble the components in PCBs manually (for only R&D Boards) as per the Layout Sheet of the required project.
- Well aware of the IPC-A-610E which is mandatory for the manufacturing of component which assure quality of the product.
- Resistor measurement, Sanity Test and Bare PCB Test which are used for verification of PCB boards.
- SMD- chip soldering and Pin through Hole Soldering.
- Quality control (AOI- Automatic Optical Inspection) also used for checking PCB boards. It will check soldering quality of component, placement of component, component shift and other problems.
- Implementation of ESD in the work floor and Expertise in Moisture Sensitive Level

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EDUCATION

B.E - Electronics and Communication Engineering

Sathyabama institute of science and technology Chennai.

Diploma - Electronics and Communication Engineering

Sri Jay Maruthi Polytechnic College Attur Salem Tamil Nadu

HARDWARE

- Electronic test equipment.(Oscilloscope, logic analyzer)
- Medical simulator: (ECG, SPO2, Blood pressure and spirometer simulator)
- Electronic measurement : (Multi-meter, LCR meter, smart tester)

SOFTWARE

- OrCAD capture
- Allegro PCB design viewer tool 16.5
- PCB Artist
- Proteus 8 professional

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