

Ashok Kumar R

Chennai - 600100

SUMMARY

Motivated Hardware Design Engineer experienced with Microcontroller and Microprocessor based Designs. Enjoys working with the Application teams at initial bring up and Product Readiness Workshops. Has a passion for building the Product that brings hardware to life. Experience and expertise includes:

- Schematic Capture
- Mechanical Design
- PCB Design
- Application support
- Microcontroller ARM, MSP430, RX CPU
- Microprocessor Q410
- Testing of the board

WORK EXPERIENCE

American Megatrends India Pvt. Ltd., Chennai

2016-Till Date

AMI offer Hi-tech engineering solutions and services to customers worldwide.

Senior Hardware Design Engineer

- Design and Development of High density boards for the Healthcare as per the Product Design Request.
- Schematic Capturing, BOM Preparation, component selection based on application.
- Providing guidelines to PCB and mechanical Designers.
- Creating the test plan, Power calculations and testing of the board.
- Guiding the S/W team make the application ready within the timeline.
- Participating on the Product compliances (IEC60601-1-2:2014).

Hanbit Automation Technologies Pvt Ltd, Hyderabad, India

2015-2016

Hanbit is an end to end automation solutions in the areas of IOT Automation.

Senior Embedded Engineer

- Design and Development of Small Form Factor boards for the Gas AMR Applications.
- Schematic Capturing, BOM Preparation, component selection based on application.
- Write proper instructions to the PCB Designers.
- Creating the test plan, Power calculations and testing of the board.
- Guiding the S/W team make the application ready within the timeline.

Kernex Microsystems India Ltd, Hyderabad, India

2015-2015

Kernex has developed cutting edge safety products for the rail industry using the latest in GPS, Radio and navigation technologies.

Hardware Engineer

- Design and Development of hardware for the Indian Railways.
- Creating the test plan, Power calculations and testing of the board.
- Write an Acceptance Criteria as per SIL-4 (IEC 61508).

American Megatrends India Private Limited

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Analogic Controls India Ltd, Hyderabad, India

ACIL design and develop Reliable onboard / Ground Systems, provide end to end solutions.

Production Engineer

- Development and Testing of hardware, preparation of acceptance criteria.
- Preparation of Quality plan document, Preparation of Test plan.
- Worked as a QA Engineer to certify the product.
- Team up with the S/W team for Board Bring up.
- Providing guidelines to PCB and mechanical Designers.
- Participating on the Product compliances (MIL-STD: 810D, MIL-STD: 461E, CISPR25).

EDUCATION

B.Tech Electrical Electronics Engineering

Newton's Institute of Engineering, JNTU Kakinada.

TRAINING

- Trained on Embedded C for 6 months.
- Trained on MIL-STD-410D compliances for 3 weeks.

SOFTWARE

- C programming
- Or-Cad Schematic Capture
- Allegro PCB Design
- Embedded Applications: KEIL, MSP430, Renesas and Rowley Cross Work
- Linux and Windows.

HARDWARE

PCB design: Debug cards for data logging (UART, Bluetooth, RF-Lora, USB, GSM/GPRS)

Electronic test equipment. (Oscilloscope, LCR Meter, DMM & Logic Analyzer)