Anantharaman J

Chennai - 600127

SUMMARY

Over 19+ years of experience in embedded system and medical product Design, Development and testing based on DSP, FPGA, Microcontroller and processor. Has strong experience in the areas of hardware design and development especially in the field of Medical / Health care and embedded systems.

WORK EXPERIENCE

American Megatrends India Pvt. Ltd., Chennai   **2013-Till Date**
A world leader in Embedded, BIOS, Mobility Solutions, Data Storage Solutions and Healthcare IT Solutions.

Project Leader

- Lead and managing a team of Hardware for design & development of Medical devices like Automatic Blood Pressure monitor, ECG monitoring, Glucometer, Spirometer, Multi-functional portable medical devices, etc.,
- Right from requirement capturing until converting the concept to proto model. This includes of Project plan, Rapid prototyping, hardware architecture, components selection, schematic design, Pre-layout and Post layout simulation for signal integrity.
- CE, FDA,FCC Regulatory Compliance design and testing for medical products
- Close interaction with various departments like PCB designers, Purchase, QA & QC, Testing (Both functional & reliability), Mechanicals, Supply chain management, Manufacturing, clinical trial, Documentation and software application teams.
- Key role Project planning, management and execution
- Responsible and ownership for product and entire design cycle
- Responsible for Hardware architecture design and implementation
- Key involvement in functional verification and validation.
- Product Assembly and integration

Perftrends Technologies Pvt. Ltd., Chennai   **2010-2013**
Service provider of Asic development, Embedded and PCI Express Control Software

Senior Project Lead

- Lead and managing a team of Hardware for design & development, right from requirement capturing until converting the concept to design. This includes of Project plan, Rapid prototyping, hardware architecture, components selection, schematic design, Pre-layout and Post layout simulation for signal integrity.
- Worked closely with PCB designers, Firmware/FPGA team and mechanical designer.
- Involved in Costing, Purchase, QA & QC, Testing (Both functional & reliability) and documentation.

Midas Communication Tech Pvt. Ltd., Chennai   **2004-2010**
A top notch company in Wireless Connectivity

Senior Development Engineer

- Key responsible for hardware design & development, right from requirement capturing until converting the concept to design. This includes of rapid prototyping, hardware architecture, components selection, schematic design.
- Working closely with PCB designers, Firmware team for implementation.
- Involved in Costing, Purchase, QA & QC, Testing (Both functional & reliability) and documentation.
- Involved in product validation for EMI/EMC compliance.

VDesign Private Limited, Pondicherry   **1999-2004**

Product Engineer

- Key responsible for hardware design & development, right from requirement capturing until converting the concept to design. This includes of rapid prototyping, hardware architecture, components selection, schematic design.
- Working closely with PCB designers, Firmware/FPGA team for implementation.
- Involved in Costing, Purchase, QA & QC, Testing (Both functional & reliability) and documentation.

Megasoft Training Centre, Villupuram   **1998-1999**
MegaSoft is a regional IT Consulting and Training Firm

Teaching Faculty

EDUCATION

B.E. (Bachelor of Electronics and Communication Engineering)
Adhiyamaan College of Engineering, Hosur, Tamil Nadu

D.E.E.E (Diploma in Electrical and Electronics Engineering)
Swamy Abedhanandha Polytechnic, Tiruvannamalai, Tamil Nadu

SOFTWARE

Protocols/Standards: DECT, Ethernet, WiMAX, USB, PCI, PCI Express, WiFi and Bluetooth.
Programming languages: MATLAB, VHDL, Verilog
EDA Tools: Xilinx ISE, Altera Quartus II, Synplicity Synplify Pro, Model Technology ModelSim, Cadence OrCAD, Mentor graphics PADS, Cadence Allegro, PRO-E.
Simulator/Debugging Tools: Analog Devices Visual DSP, In Circuit Emulators, HyperLynx, ORCAD PSpice, PSIM, Rowley Crossworks for ARM.
Project Management: MS Project, Excel

HARDWARE

Testing Tools: CRO, Logic Analyzer, Spectrum Analyzer, PCM analyzer, Digital Multimeters
Processors: Analog Devices 218x, Blackfin BF53X, Tiger Sharc TS201,Freescale IMX-258 ,iMX6 and Kintex, SiLab C8051F120, NXP LPC2220, LPC3220, Ingenic M200, Snapdragon 410 and Snapdragon Wear2100.
Device Interfaces: Link port, UART, PPI, SPI, I2C, SSTL, HSTL, LVDS, DDRx, DSI, and CSI.
Product Standards: RE, CE, ITU-T, FCC, FDA, Airborne DO-160, ISO13485, Medical safety and essential performance standards, like IEC 60601, etc.

PATENT AND ACHIEVEMENTS

- **Patent:** "Wireless wearable Vital and Activity tracker" (1516/CHE/2014)
- **Patent:** "Modular Wireless Vital Signs Monitoring Device" (1616/CHE/2013)
- Training on ISO14971:2007 / EN ISO 14971:2012 – Medical Devices Risk Management Requirements
- Training on Clinical Evaluation, Post Market Surveillance and Post Market Clinical Follow up Requirements
- Got AMI Team Excellence award for the year 2015-16
- Got AMI Star Performer award for the year 2012-13

American Megatrends India Private Limited