Dinesh M

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Having 20+ years of experience in embedded systems Development for Semiconductor Industry, consumer electronics and automotive applications. Experience in project planning, product design, and concept generation. Providing technical leadership, assisting pre-sales with useful technical insights, and conducted numerous technical sessions and training programmes for students and faculty across multiple universities.

Experience

Principal Engineer, Microchip Technology India Private Ltd, Bangalore, Oct 2013 – Mar 2025

Software Architect, Wipro Technologies, Bangalore, May 2010 – Oct 2013

Lead Engineer, Samsung India Software Operations, Bangalore, Jun 2006 – Apr 2010

Asst. Project Lead, Procsys Ltd, Bangalore, Jul 2005 – Jun 2006

Senior Software Engr, Mindteck India Ltd, Bangalore, Oct 2003 – Jul 2005

Senior Systems Engr, Siemens, Bangalore, Jun 2001 – Oct 2003

- Experienced in the development of Linux/Bare-Metal Device Drivers, firmware, and diagnostics software for 8/16/32 bit Microcontrollers (X86, ARM Cortex).
- Experience in developmental activities related to Consumer electronics, Automotive software, and Semiconductor industry.
- Responsible for Firmware, and Driver development for PIC24F 16-bit controller reference code.
- Hands-on experience in Embedded systems development, with and without RTOS, Firmware Development, and Debugging of software issues.
- Experience in Idea Realisation and Development of Proof of Concepts.
- Experience in the Development of Drivers for serial communication protocols like I2C, SPI, UART, USB-OTG, etc.
- Experience in the Development of Engine Control Unit Software for Diagnostic, Torque, and ideal speed modules.
- Possess Outstanding Technical Presentation abilities. Have done several technical sessions on behalf of the organization, and delivered numerous technical presentations at various universities.
- Have conducted technical training programs for graduate students and faculty members at different universities. Have received many appreciation for the same.
- Have a few technical publications in the area of Artificial Intelligence employing machine learning related to my Ph.D. work.
- Have authored a Technical Book Titled "**Practical Embedded Computing – A Hands-on Introduction to ARM Microcontrollers".,** used my many universities across the globe.
- Was part of Prime Ministers Mission in training 5lk students across India, and this helped Microchip to be on **world book of records.**
- Have good connections across the universties in India among the faculty and students.
- Have received awards at the workplace for technical and Project Management contributions.

Skills

- Project Planning, Stake Holder Management, Customer Relationship & Technology understanding.
- Strong Presentation skills
- C/C++, Exposure to Python
- Firmware development, for 8/16/32 bit controllers. ARM and x86 processors.
- Product design & development, Linux Drivers, Testing, Validation, RTOS
- Exposure to ML in the area of AI
- Agile Methodology
- Tools: Processor-specific IDE, JTAG debuggers, git, PVCS
- Protocols: I2C, SPI, USB 2.0, USB-OTG, UART
- Capacity to inspire employees and uphold goodwill
- Technical presentations across various universities and Paper Publications.

Education

Ph.D (CSE)
VTU, Belagavi, Karnataka 2016-24

M.E (CSE)
Anna University, Chennai, 2012-14

B.E (CSE)
PESIT, Bangalore University,1996-2000