Patel Tejas Rameshbhai

[Electronics and Communication Engineer]

E-102,Vasantvihar flat part-2, Dafnala road,

Shahibaug, Ahmedabad-380004

Contact: +91-9429906564

E-mail: [pateltejas6565@gmail.com](mailto:pateltejas6565@gmail.com)

**CAREER OBJECTIVE:**

Experienced embedded hardware and software engineer with wide exposure to various electronics technology as well as in end to end product development life cycle

**EDUCATION:**

* Bachelors of Engineering B.E. in Electronics & Communication from U.V. Patel Engineering college, Mehsana, (GanpatUniversity) with *6.2 CPI/Average* in the year 2013

**TECHNICAL QUALIFICATIONS:**

* Architectures – ARM cortex-A5, cortex-A8, SoC, SOM
* MPU/MCUs – AM335x, TM4C12x, LPC series, Kinetis, i.MX6 series, STM32Fx series
* Interfaces – Modbus Protocol, IEC101/104, UART, I2C, SPI, USB, Ethernet, LCD,GPIO, RTU, Digital In/Out, Analog In/Out,
* Software – Windows, Linux, MS Office, Visual Studio, C, C++, etc.
* Tools – Eclipse, Visual Studio, Qt, Modscan-32(Monitoring tools).
* New Technology – Wireless MCUs, SoC, IoTbased applications.

**SUMMARY:**

* Considerable experience of Programming in software and application development in C, C++.
* Familiar with the standard principle, concepts and application of embedded software as well as hardware.
* Experienced in Cloud based application like a data monitoring.
* Knowledge of microcontroller architectures and engineering processes for complete project execution
* Interactive Co-operation with Software and Mechanical team involved as a part of Embedded Software development and its maintenance.
* Possess hardware testing and project documentation skills
* Creative problem solving and communication skills
* Ability to work cooperatively and effectively in a team environment
* Enthusiastic to take initiative for project management, team discussions, reporting of time-aligned work flow and submission of customer oriented output

**WORK EXPERIENCE:**

Digital Reach Pvt. Ltd, Ahmedabad  
Embedded Engineer (May 2016 - till date)

* Handle the tasks of feasibility study, enquiry proposal
* Exploration of various MPU/MCU Architecture Possibilities, finalize architecture definition along with Hardware/Software Requirement Specification.
* Handle responsibilities of defining Specs - Requirements and building applications based on the existing technologies.
* Functional testing, Validation & Verification of software and Application developed.
* Detailed study of Datasheet - User guide – Ref Design guide – Errata sheet – Release notes
* Perform the tasks of developing and documenting technical guidelines for product development, Product User guide, Quick test guide, Operation Manual
* Handle the tasks of Developing software and managing companies day-to-day activities

**PROJECT HIGHLIGHTS:**

* Human Machine Interface (HMI) refers to graphical device based on ARM cortex-A8 MPU that allows to interact with a machine’s real-time control system operating on WinCE7, Linux
* An Exercise ball is a handheld exercise device that targets on muscles in the hands-fingers- wrists-forearms-shoulders and shows result in Smart Handset on BLE with wireless charging
* Protocol Converter Board is a specific embedded product based on Cortex-M4 MCU used in protocol conversion application in industries. It includes Interfaces like isolated serial communication, Ethernet, External memory, isolated GPIOs working on free RTOS
* LED Control Board is cortex-M4 based Embedded Hardware which can give runtime control over individual LED color with a windows application. It has 8 channels and can drive up to 1000 RGB LEDs on each channel. USB/Serial firmware upgrade also available
* Asphalt Plant controller is HMI based on cortex-A8 MCU to monitor the mixture flow and temperature of materials like Aggregate, Mineral filler and Bitumen
* GATEWAYfor product solution is i.MX6 MPU based linux system with multiple interfaces like serial, Ethernet, Audio, USB, SATA, SPI, I2C, LVDS, HDMI

**Personal information:**

Date of Birth : 08-11-1992 Marital Status : Single

Gender : Male Languages : English, Hindi and Gujarati

Yours Sincerely,

(Tejas Patel)