**RAHUL YASHWANT JAGTAP \_**

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**Date of Birth:** 20th November 1984

**Summary:** Having Bachelors Degree in Electronics & Telecommunication from SHIVAJI UNIVERSITY & 5 years of experience in the field of Embedded Technology. Seeking a position to excel by using my skills and experiences for success of the Organization especially in the field of embedded domain.

**Technical Ex:** 8 bit & 32 bit Microcontroller, Thermal Printer, Serial Communication, I2C, SPI, Keil Cross Compiler, Graphical LCD interface, 7 segment display interface, Hardware design, Firmware Testing, Black Box testing, UHF reader, smart card reader (13.56Mhz),HID.

**Software:** Embedded C, Or-cad, Or-CAD, KEIL, Protel99, Linux (Entry level), and Coral-Draw.

**Microcontroller:** NXP P89v51rd2, LPC2368/78, LPC3180, Atmel’s AT89c51.

**Cross compiler:** Keil uv3, GCC.

Professional Experience::

1. Worked with **Whirlpool of India Limited PUNE** on payroll of Vmoksha Technologies as a **Software Testing Engineer (SQC)** since Dec. 2012 to march 2013.

**Job Profile:**

Black Box Testing & Regression Testing of Product,

Prepare Test cases.

**Project:**

Microwave Oven

This project includes Testing of Firmware (Black Box) for Microwave Oven. Here testing of peripherals like Heaters, Graphical displays GUI, Light indicator & Audio Tone have to be tested.

1. Worked with **Smart I electronics systems Pvt. Ltd. Mumbai** as a **Product development Engineer (R&D)** since Feb2010 to Dec2012.

**Job Profile:**

* + Follow HLD as per Application Design. Prepare SRS of design.
  + Developed hardware models for ARM7TDMI, P89V51RD2.
  + Responsibilities include Design of Device Adapter Hardware, Datasheet study, cost

Effective Component selection, PCB layout review, NETLIST creation and checking,

BOM making.

* + Coordinate with layout designer, CAD designer and PCB manufacturer.
  + Production guidelines and PCB assembly testing.
  + Interact with client for product queries and reviews.
  + Prototype manufacturings of PCB for R&D phase development.
  + ISO Certification implementation for R&D.
  + Firmware Testing (Black Box Testing).
  + Performed Functional, Regression and Unit testing.

**Projects:**

HANDHELD TERMINAL (HHT)

This application is design for Remote Attendance and Ticketing application Purpose.

This terminal also used for financial inclusions (POS).Hardware develop by using P89V51RD2.Here peripherals like biometrics sensors, smart card reader, Thermal Printer & GPRS are used. Major challenge is the firmware testing of all peripherals along with protocol testing.

BMS 8IO TCPIP

This is lift control application for building automation. My role was to design hardware using Rabbit 2000 processor and firmware testing of same.

Access Controller (2Door - 2Reader)

This is security based application for Time & Attendance control. Here 2 Biometrics readers with HID reader are places at doors entry and Magnetic lock place for door locking purpose.

My task is to develop hardware by using LPC2368 ARM and Product testing at customer location by using remote access.DVR integration with high resolution cameras.

Long Range Reader (UHF Reader)

Application develops for highways Toll collection. At toll gate reader are place where authorize vehicle have Tag mounted on glass. Directional Antenna range is up to 5 meters (Weigand).

My role in this project is to integrate & test UHF reader access controller for UID identification and verification. The challenge in this project is to get consistent antenna range and card detection.

Smart Card Reader (RS-485)

This is weigand reader for mi-fare and HID card. Using RS-485 communication around 1000 meter of card data can be fetch.

My task is to develop hardware design using 89V51RD2. And perform a firmware testing along with card read range and communication distance.

1. Worked with **TRACK RF LINK Pvt Ltd. Mumbai** as an **Embedded Test Engineer (R&D)** since Jan 2008 to Nov2009.

**Job Profile:**

* + Embedded C coding.
  + Co-ordination with vendors for prototyping.
  + Designing and Documenting Test Cases.
  + Designing circuit schematic for PCB.
  + Performed Functional, Regression and unit testing.
  + Installation and commissioning of Projects.

**Projects:**

GPS/GPRS based Smart card authentication system:

This application use at remote location for employee attendance and data is send to central server by using GPRS connectivity.GPS is use to track location of vehicle/employee.

My role in this project is to design hardware using LPC2378 & software coding in keil compiler to develop AT command set.

ARM based Bluetooth Printer:

This project is developed for receipt/ticket printing in railway by using mobile Bluetooth connectivity. In this project 2”thermal printer and Bluetooth chip are used.

My role in this project is to design hardware using 89V51RD2 and testing of project using mobile application.

**Academic achievements:**

|  |  |  |  |
| --- | --- | --- | --- |
| **EXAMINATION** | **YEAR** | **BOARD** | **PERCENTAGE/GRADE** |
| SSC | 2000 | Mumbai University | 53.06 % |
| Diploma (ECC) | 2004 | Mumbai University | 66.48% |
| B.E.(EXTC) | 2007 | Shivaji University | 61.32 % (Agg.) |
| PG (Embedded) | 2008 | UTL Technology Pune | B+ |

**Co-curricular Activities:**

**Project:**

**Prepaid Parking System** Team Size**:** 5

In this project with the help of prepaid card the entry for the parking of vehicle is made. While parking the vehicle card has to be inserted in ‘Entry Unit’ which will keep record of time when the vehicle is parked and at the time of exit card has to be inserted in ‘Exit Unit’ which will calculate total time for which vehicle is parked.

**Seminar Work:**

* Presented seminar on “**Speech Recognition in VLSI**”.
* Presented National Level Technical Paper on topic “**WI-FI Technology”** at Rajarshi

Shahu College of Engg. Pune.

* Presented State Level Technical Paper on topic “**VLSI**” at K.K.Wagh College of

Engg. Nashik.

* Participated in National Level **Quiz Contest** at Rajarshi Shahu College of Engg.

Pune.

**Extra-Curricular Activities:**

* **Robotron Head** in Aavishkar in 2k7*.*
* Member in **National Service Scheme (NSS).**
* Cadet of **Maharashtra Cadet Corps (MCC).**
* Participated in **Indoor** and **Outdoor** games.
* Working as a member in **ELITE** committee.

Date:

Place:  **(Rahul Y. Jagtap)**