MD SHAHID

EMBEDDED FIRMWARE DEVELOPER

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CURRENT STATUS

Senior System Software Engineer
(AMI)

TECHNOLOGIES

AVR, Atmega8, Atmega16, Atmega32, STM32, LPC2148 ARM, PIC18F877A, ARDUINO (UNO, MEGA, NANO), 8051 family, I2C, SPI, UART.

SOFTWARE USED (IDE)

ATMEL STUDIO, ARDUINO IDE, Kiel µVision IDE, Proteus, ANDROID STUDIO.

TRANINGS

- **PLC AND SACDA.**
- **VHDL and VLSI**
- **JAVA (Eclipse)**
- **Embedded System and Robotics**
- **C++**

SKILLS

LANGUAGES
Embedded C, C, C++, Kotlin, PYTHON.

EXPERIENCE

TOTAL EXPERIENCE: 5 YEARS 4 Months

COMPANIES

American Megatrends International.
SENIOR SYSTEM SOFTWARE ENGINEER
(2 YEARS 1 MONTH) (FEB 2022 – Currently working)

Tata Consultancy Services.   (Payroll- Stratosphere IT Services)
SOFTWARE ENGINEER
(11 MONTHS) (March 2021 – Jan 2022)

Triumphant Robotics with Eminent Embedded System (T.R.E.E.S.) Pvt. Ltd.
EMBEDDED / FIRMWARE DEVELOPER and RESEARCHER
(1 YEARS 11 MONTHS) (Jan 2018 – Nov 2019)

Kept Bug Technologies Pvt. Ltd.
EMBEDDED SYSTEM DEVELOPER (Trainee)
(5 MONTHS) (Aug 2017 – Dec 2017)

PROJECTS

- **Developed equipments of Embedded System Lab for N.S.I.C Delhi**
  - ➢ **Smart Home Security Lab**
  - ➢ **Home Automation Lab**
  - ➢ **ioT Lab**
  - ➢ **Communication Lab**
  - ➢ **Raspberry pie Lab**
  - ➢ **Robotics Lab**

  (T.R.E.E.S.)

- **Programmed DRAAKSHA Automatic Flagger Robot (Embedded C, Atmega8)**
  - ➢ **In this Traffic robot I have programmed its controller of Atmega32 to manipulate traffic in Highways.**
  - ➢ **This robot sends signals to vehicles by moving its both arms in specific direction to control traffic.**

  (T.R.E.E.S.)

- **Developed BEDSIDE Calling Unit for HOSPITAL (Embedded C, Atmega8, I2C)**
  - ➢ **In this System Patient can send signal to receptionist in emergency from their bed or bathroom.**
  - ➢ **In this System if receptionist is busy or not responding then this system will send signal directly to doctor by GSM.**

  (T.R.E.E.S.)

EDUCATION

B-TECH (2013-17):
ARYABHATTA KNOWLEDGE UNIVERSITY (PATNA)
SITYOG Institute of technology, (BIHAR)

Electronics and Communication
CGPA: 8.00

SCHOOL (1-12th):
Kendriya Vidyalaya
Board: CBSE

EXTRACURRICULARS

- **1st Prize in ROBOWAR**
  (Techfest) (Spring 2016)

- **2nd Prize in Running Competition**
  (Techfest) (Spring 2016)

- **1st Prize in Drawing Competition**
  (Fall 2012)

- **Participated in Scout and Guide throughout school.**

- **Participated in Drama (Sonpur ka Mela) in Scout and guide.**

- **1st Prize in Drawing Competition**

- **Alcohol detection device for Traffic Security (Embedded C, Arduino)**

  ➢ This device is useful for traffic police to detect whether the driver is drunk or not.
  ➢ If driver is drunk, then it will generate alarm and display alcohol level.

  (T.R.E.E.S.)

- **GPS Tracking device using Arduino UNO (Embedded C, Arduino)**

  ➢ This device is use to identify the longitude and latitude of that device so can track the device.

  (Kept Bug)

- **Programmed a LIFT to work properly using STM32 Microprocessor**
  (Embedded C, STM32)

  ➢ This is very common program for any lift of mall or building.
  ➢ This system will check capacity of people in lift, fire emergency, shortest distance of floors etc.

  (Kept Bug)

- **CNC 2D Plotter Drawing Machine using Arduino Uno (Embedded C)**
  ➢ This device is very useful if you don't like writing, this will do it for you.
  ➢ You just have to instruct it and give it paper and it will do the rest,
  ➢ You can also draw any picture with it for your school or college projects.

  (In Collage) (Self-Project)

- **Calling and messaging device using Arduino and GSM Module (SIM800A and SIM800L)** **(Embedded C)**
  ➢ This device is useful for making call with your sim card and talk with anyone in world.
  ➢ I have used SIM800L and Arduino.

  (In Collage) (Self-Project)

- **Implemented new features and enhancements to improve system performance and functionality of BIOS, supported in debugging and troubleshooting and resolve firmware issues.**

  (A.M.I)

DECLARATION

I do hereby declare that the particulars of information and facts stated above are true, correct, and complete to the best of my knowledge and belief.

Place: CHENNAI, INDIA   **MD SHAHID**