Adarsh R

Embedded Developer

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Summary

A curious Embedded developer with 4 years experience on IoT, Web & Android apps develpoment. Solid knowledge of MCU's, web & cloud technologies. Detail oriented, Dedicated and Dependable team player who has strong analytical, organizational, probem solving, presentation, communication and project management skills. Also who posess ability to manage multiple tasks and work in a fast paced schedule.

Reference

Mayank Tyagi

MD - Entrench Electronics

Phone +91 95 99 051728

Email mayank@entrench.in

Technical Expertise

Languages	Java, C, Embedded C, Python, PHP, Javascript, Android, NodeJs, HTML, CSS
Protocols	RS-232, I2C, SPI, UART, MQTT, CoAP
Database	Firebase, NoSQL, MySQL, SQL Server
IDE	Android Studio, Eclipse, ATmel Studio. MATLAB, Keil uVission Vissual Studio

Skills

Java

C

NodeJs

Firebase

Embedded C

Android

MuC's and SOC's

PHP, HTML, Javascript, CSS

AWS, Google Cloud

Work Experience

Freelance Developer / Entrench Electronics Pvt. Ltd.   2017 - NOW

Hardware Design for the need of client.
Testing and interfacing the individual I/O Systems.
Used GSM, MQTT, CoAP to transfer data with appliances.
Developed backend using AWS, Raspberry Pi, NodeMcu, NodeJs, HTML and Javascript.
Used various Javascript Libraries like Annyang for voice recognition
Used facebook and OpenCV for facial recognition
Designed Android App for controlling the system.

Entrench Electronics Pvt. Ltd   2014 - 2017

Sr. Embedded Engineer

Lead projects and designed training module of the company
Designed Hardwar and software platform of IoT based school management system
Converted conventional gas meter using Hall effect sesnor, ATmega8 MUC and SIM900
Designed and developed company's web portal using PHP,HTML and JQuery
Designed fire fighting robot using Raspberry pi and thermal camera.
Product testing

Times Globacom Pvt. Ltd   2014 - 2014

Sr. Embedded Engineer

Created an interactive training software using Adobe Flash.
Managed and supervised a team of junior research engineers.
Developed many training modules and projects.

Robosapiens Technologies Pvt. Ltd.   2013 - 2014

Research Engineer

I've developed Android and Cyber Security training modules
Wrote product description on compan's ecommmerce portal
Providing customer support on Projects purchased through online portal
Delivered Training sessions in Primeir Institutes

Education

Bachelor of Electronics and Communication Engineering   2009 - 2013

Anna University, Chennai

Developed gesture controlled robot using Matlab Image Processing and ATmega8.
Created self balancing robot using Arduino, accelerometer and gyroscope,
Designed a laser communication system.

Projects

Interactive Smart Mirror with Facial Recognition

Platform: Raspberry Pi, Electron, NodeJs
Languages: Python, Javascript, Bash Scripting
Brief: To create an interactive smart mirror to act as the base of home automation.

Responsibilities
  Wrote electron app using NodeJs
  Used Openface library for facial recognition
  Used annyang javascript library for voice recognition
  Setup MQTT broker on Raspberry Pi
  Integrating ESP8266 with RPi using MQTT
  Product testing

Clinic Management application

Platform: Raspberry Pi, Firebase, NodeJs
Language: Javascript, HTML, JQuery, Python
Brief: To design a complete clinic management system with live token display unit.

Responsibilities
  Writing NodeJs app to manage token and registration
  Printing tokens using thermal Printer
  Displaying live token using LED Matrix Display
  Developing back end application using HTML
  Developing Android app for appointment registration

Smart Gas Meter

Platform: ATmega8, SIM900, Apache
LanguageS: Embedded C, AT Commands, PHP, SQL
Brief: Coverting an analog gas meter to smart meter by adding an extra module.

Responsibilities
  Writing Embedded C code for handling halleffect sensor
  Storing reading in EEPROM
  Sending Data to server using SIM900
  Wrote a program to fetch the data throug sms gateway
  in PHP

RFID & Biometric Based Attendance System

Platform: Raspberry Pi, ESP8266
Language: Embedded C, Python, PHP
Brief: TO develop an IoT based school management system with multiple user login.

Responsibilities
  Interfcaing EM18 RFID reader with ESP8266
  Connecting ESP8266 client station using MQTT
  Wrote Python Flask server to manage the data locally
  Pushing the data in an intervel through RESTful API
  Parsing RESTful API in server side uing PHP

I here by declare that all the information mentioned above is true and best of my knowledge

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