

SHASHANK AGRAWAL

EMBEDDED SOFTWARE DEVELOPER

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Passionate Embedded System Professional with 1.5 years of experience in Embedded Software. Seeking to leverage expertise in Embedded R&D and Product Engineering. Proven ability to enhance software features, implement robust solutions, and manage complex projects in the embedded domain.

PROFESSIONAL OVERVIEW

WORK EXPERIENCE & TECHNICAL PROJECTS

1. VoIP Based Audio Communication System.

Company: Phi Audiocom Systems Pvt. Ltd. (May 2023- Sept 2024)

Technology: VS Code, Linux (Ubuntu, CentOS), Eclipse, VoIP, Asterisk

Programming Language: Embedded C, Makefile.

Board: AC495L (Audio Codes).

Project Overview:

- **VoIP System:** Uses Voice over IP on a Client-Server model.
- **Client (Field Call Stations):** Connected via LAN and switches.
- **Server (Call Manager):** Uses Asterisk PBX, communicates via UDP sockets.
- **Java (GUI):** Develop for client configurations and call management.

Responsibilities:

- Enhanced client-side software features in C.
- Implemented a version control System for the client application.
- Worked on broadcast, unicast and multicast protocol concepts in programming.
- Prepared and executed test cases for functional testing of system.
- Configured multicast on Cisco routers for seamless network communication
- Conducted onsite system demonstration at LPSE, Trivandrum and BSP, Chhattisgarh.

2. Automatic Attendance System using RF-ID

Company: CDAC-ACTS

Technology: STMCubeIDE

Programming Language: Embedded C

Board: STM32F407 Disc-1

Responsibilities:

- Designed system architecture for RF-ID based Automatic Attendance System.
- Integrated RF-ID readers with microcontroller.
- Implemented user feedback via LCD display and auditory signals for attendance confirmation.

EDUCATION

Post Graduate Diploma

Embedded Systems Design

CDAC-ACTS, Pune, 2023

Bachelor's degree

Electronics & Telecommunications

SSTC, Durg (C.G.), 2020

TECHNICAL SKILLS

- Embedded C
- ARM Processor (M4)
- Operating Systems (Ubuntu, CentOS)
- Basics of Makefile and Bash Scripting
- Basics of Device Drivers

TECHNICAL SOFTWARE

Embedded Software

VS-Code, Vim Editor, Eclipse, STM32CubeIDE

Protocols

I2C, SPI, UART

Boards

STM32F407(ARM),
AC495L (AudioCodes)

CERTIFICATES

- Training on Device Driver Essentials: Embitute Information Technologies (July 2024)
- Microcontroller Embedded C Programming: Absolute Beginners (Udemy-2024)