

HARITHA THORLIKONDA

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Embedded C Developer

Career Objective

To leverage my skills in Embedded C and Linux driver development to contribute to the design and optimization of high-performance embedded audio systems.

Profile Summary

Embedded C Developer with 1.4 years of experience in Audio Software and Driver Development for Embedded Linux and Android platforms. Skilled in ALSA, Audio HAL, and Audio Frameworks with hands-on expertise in C programming, Linux kernel modules, and driver debugging.

Key Skills

Programming Languages:	C, Data Structures, Basic Python
Operating Systems:	Linux (Ubuntu), Android, Windows
Frameworks & Technologies:	ALSA, Audio HAL, Audio Flinger, Android Audio Framework, DAPM, I2S Interface, Machine Learning
Tools:	Trace32 (T32), Audacity, GoldWave, GCC, Make, GDB
Version Control & Build:	Git, Gerrit, Makefile
Concepts:	Multithreading, Process Management, IPC, Device Driver Debugging, Kernel Programming

Professional Experience

Engineer | L&T; Technology Services (LTTS)

Client: Intel | Duration: Nov 2021 – March 2023

Domain: Audio Codec Driver Development | Technology Stack: C, Linux, ALSA, Audio Drivers

- Developed and optimized Linux Audio Codec Drivers using ALSA framework.
- Worked on Audio HAL and Android Audio Stack (Audio Flinger, Audio Policy, Mixer controls).
- Analyzed and fixed issues in audio path configuration, latency, and power-up/down sequences.
- Performed debugging and validation using Trace32, Audacity, and custom test tools.
- Participated in Agile Scrum meetings and coordinated with cross-functional teams for timely delivery.
- Conducted regression and stability testing post-integration to ensure system reliability.
- Collaborated with hardware and firmware teams for seamless integration of codec drivers.

Achievements

- Received Client Appreciation for effective execution and validation of key audio deliverables.
- Recognized for innovative debugging approaches that uncovered and resolved hidden software defects.
- Consistently contributed to on-time project delivery with high code quality and maintainability.

Education

Bachelor of Technology (B.Tech) – Electronics and Instrumentation Engineering

Keshav Memorial Institute of Engineering, Hyderabad | 2012 – 2016 | 78%

Additional Information

Languages Known:	English, Telugu, Hindi
Location Preference:	Open to relocation within India
Notice Period:	Immediate / As per company policy