

JAYALAKSHMI TJ

Place : Bangalore

Email Id : jayalakshmitj.23@gmail.com

Mobile : 8073167718



Profile Summary :

To acquire a position that utilizes my embedded software development and project analysis in the contribution to the overall productivity of the organization.

My Self

I am a person with a positive attitude, self-confidence and quick learner. I consider Myself to be a work-oriented person having assets of intellectual knowledge, sociability and a flavor to do work in any atmosphere.

Academic Credentials

- Completed B.Tech (ECE) from Government Engineering College, Wayanad. APJ Abdul Kalam Technological University with a CGPA of 7.81 in 2022.
- Completed Diploma (Electronics) from Sree Rama Government Polytechnic College, Triprayar. Kerala State Board Of Technical Education with a CGPA of 8.01 in 2019.
- Completed HSC from GGHSS, Kodungallur, Kerala. State board with an aggregate of 81% in 2016.
- Completed SSLC from GGHSS, Kodungallur, Kerala. State board with an aggregate of 95% in 2014.

Training & Certifications

- Embedded Systems Course at VECTOR INDIA, Bangalore, from December 2022 to June 2023.

Experience Summary

- 1.5 years of experience in embedded systems development and UI/UX development using the JUCE framework and C++ for building cross-platform audio and music applications.

- Developed and implemented a communication flow from pad, LED, Buttons, Rotary signal input to microcontroller, which transfers data via UART protocol to a Microprocessor (IMX).
- Processed data on the application side, ensuring efficient data handling and integration.
- Demonstrated expertise in microcontroller programming, UART communication, and application-level data processing.
- Proficient in creating custom user interfaces and interactive visualizations for audio applications, optimizing for both performance and user experience.
- Hands-on experience in designing and implementing MIDI mapping, integrating with JUCE's audio and MIDI capabilities.
- Skilled in using JUCE components (e.g., sliders, buttons, menus) and creating custom components to achieve rich, responsive UIs tailored to user needs.
- Experience with ValueTree management in JUCE for handling dynamic data, managing complex application state, and enabling efficient communication between UI components and backend logic.
- Proficient with version control systems like Git, and experienced in working collaboratively using tools like GitHub.
- Familiar with testing frameworks in JUCE for unit testing and ensuring code stability and quality across development stages.
- Bug Fixing and improving application performance.
- Experience in developing application prototypes using tools like Azure.

Employment History

Worked as an **Innovation Embedded Software Specialist** at **Music Tribe Innovation Private Ltd** from **July 2023** to **January 2025**.

Technical Skills

Programming Languages : C++, C, Embedded C, Embedded C++

Framework : JUCE

Simulation software tools : Keil uVision

Microprocessor : ARM, 8051

Protocols : UART, I2C, SPI, CAN

Operating system : Windows

Environment Tool : Visual Studio

Project Summary

Project : KICK

Roles of Lead : Responsible for developing UI development and Midi mapping

Team Size : 3

Organization : Music Tribe Innovation Pvt Ltd.

Technology : Embedded C, C++, JUCE

Description : Produced music using the KICK, specializing in sampling, sequencing, and beat-making. Designed custom sounds and drum kits tailored to multiple genres, while overseeing the entire production process from composition to final mix. Demonstrated proficiency in creating unique, genre-specific tracks and delivering polished, professional-quality music.

Declaration:

I hereby declare that the above said information is true and correct for the best of my knowledge

Thanks & regards
Jayalakshmi TJ