**Kalyan Sarabu**

kalyankumar8284@gmail.com| +91 7893828479| LinkedIn: kalyan-sarabu-63b52524b

**PROFILE SUMMARY**

Recent ECE graduate seeking an entry-level position in the embedded industry. Eager to apply technical skills to contribute to innovative projects. Committed to continuous learning and growth within a company, leveraging expertise in C, Embedded C, Python and hardware interfacing to enhance engineering solutions.

**EDUCATION**

**Audisankara Institute of Technology Gudur, Andhra Pradesh**

*B. Tech in Electronics and Communications May 2020 - June 2024*

**CGPA:** 7.5

**Krishna Chaitanya Junior college Nellore, Andhra Pradesh**

*12th Grade (Senior Secondary/Intermediate) May 2020*

**CGPA:** 8.25

**Vivekananda High School Nellore, Andhra Pradesh**

*10th Grade (Secondary) May 2018*

**CGPA:** 8.5

**SKILLS**

**Programming languages:** C, C++, Embedded C, Python

**Protocols:** UART, I2C, SPI, CAN

**Micro-Controllers:** 8051, PIC 16F877A, ARM Cortex-M3 LPC1768

**Operating Systems:** Windows, Linux

**PROJECTS**

**Digitally Controlled Frequency Generator (AT89C51 Microcontroller)** **August 2024**

**Tools:** AT89C51 Microcontroller, Embedded C, Quad Seven-Segment Display, Timers, Keil IDE, Proteus Simulation.

**Kay Features:**

* **Variable Frequency Control**: Frequency values are entered using a hex keypad, allowing users to set specific frequencies up to 9999 Hz.
* **Real-Time Display**: A quad seven-segment display shows the entered frequency in real time, providing immediate feedback to the user.
* **Push Button Activation**: Square wave generation is triggered by a push button connected to the external interrupt INT0, giving precise control over frequency output.
* **Efficient Timer Management**: Utilizes Timer 0 for display refresh and Timer 1 for frequency generation, ensuring smooth and accurate operation.

**INTERNSHIPS**

**Embedded Systems, Emertxe Feb 2024 – March 2024**

* Applied C and Embedded C programming with PIC 16F877A Microcontroller.
* Developed a Washing Machine Simulator project using Picsimlab and MPLAB IDE.
* Key Skills: C, Embedded C, PIC Microcontroller, and MPLAB IDE.

**ACADEMIC ACHEIVEMENTS**

* Earned a certification in Internet of Things, demonstrating proficiency in Networking’s, Protocols and project management.