Sandhya Lukka

Date of birth: 30/06/1998 | **Nationality:** Indian | **Gender:** Female | **Phone number:** (+91) 8464092363 (Work) |

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● ABOUT ME

I am a software engineer specializing in embedded systems for automotive applications. With a focus on developing, implementing, and maintaining software systems for modern vehicles, I bring expertise in embedded systems, real-time operating systems, and programming languages including C, C++, and Python. I am eager to join this institution to deepen my knowledge of automotive technology.

● WORK EXPERIENCE

07/06/2021 – 15/03/2024 Hyderabad, India
SOFTWARE ENGINEER eSTAR TECHNOLOGIES

Collaborated on defining software requirements for the Ground Pad Module (GPM) of an Electric Vehicle (EV) charging station in accordance with ASPICE standards. This involved detailing the functional and non-functional specifications necessary for the GPM's software to ensure its compatibility, safety, and reliability within the charging station ecosystem.

07/08/2022 – 15/05/2023 Hyderabad, India
SOFTWARE ENGINEER eSTAR TECHNOLOGIES

Involved in the OKINAWA project, where I contributed extensively to both its development and testing phases. OKINAWA 2G GPS Device served as a tracking device designed to adhere to the Concox protocol document, utilizing packet protocols in HEX format.

07/01/2022 – 15/08/2022 Hyderabad, India
SOFTWARE ENGINEER eSTAR TECHNOLOGIES

Contributed to the development and testing of SOUNDBOX, a sound simulation system for electric vehicles. This system generates varying sounds based on changes in the vehicle's throttle position.

In this project, I gained experience working with several key components and technologies, including Schedular, Watchdog Timer (WDT), UART, DMA, EEPROM, and SPI. Additionally, I utilized tools like e2 Studio, GCC & CCRL compilers, and the RL78/G13 Group R5F100AC Controller, along with the Renesas e2 debugger.

07/07/2021 – 15/01/2022 Hyderabad, India
SOFTWARE ENGINEER eSTAR TECHNOLOGIES

Worked on developing an On-board Charging System (OBC) for electric 2W vehicles in collaboration with BAL. This system allows users to recharge their vehicle batteries directly from AC mains, whether at home or at public charging stations.

Gained experience in various technologies including FreeRTOS for task scheduling, UART Protocol for communication, and ADC Driver for analog-to-digital conversion. I also developed expertise in using MPLAB X IDE, XC8, and XC32 compilers, targeting the SAMC21J18A Controller

07/07/2019 – 15/02/2020 Hyderabad, India
TRAINEE VECTOR INSTITUTE

Completed an advanced course in embedded systems at Vector India, Hyderabad. Skilled in microcontrollers, Embedded C, Data structures, Linux, TCP/IP, Device drivers, Communication protocols, and autosar technology.

EDUCATION AND TRAINING

20/07/2015 – 20/06/2019 Andhra Pradesh, India
BACHELORS OF ELECTRONIC AND COMMUNICATION ENGINEERING Sri Vasavi institute of engineering and Technology

Field of study ECE   **Final grade** 2.7 | **Final CGPA** 62.9 CGPA

15/07/2013 – 28/05/2015 Andhra Pradesh, India
BOARD OF INTERMEDIATE EDUCATION RK Junior Collage

Field of study MPC | **Final grade** 61.00%

15/06/2012 – 30/04/2013 Andhra Pradesh, India
Board of Secondary Education Sri Sai Baba High School

Final grade 78.00%

LANGUAGE SKILLS

Mother tongue(s):   **TELUGU**

Other language(s):

	Listening	Reading	Speaking	Writing
ENGLISH	B2	B1	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office (Word, Excel and Power Point) | Microsoft (Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Microsoft Access) | Proficient in C and Embedded C languages| Keil, MPLAB, e2Studio, STM32 cube IDE, and IAR Workbench. |communication protocols including I2C, SPI, UART, LIN, and CAN. | FreeRTOS &Schedular, Bootloader, WDT, EEPROM, PWM, CCP, TIMERS. |

ADDITIONAL INFORMATION

HOBBIES AND INTERESTS

Cooking Being in a culture filled with traditional dishes and recipes I love to cook Indian and Italian food

Music is one thing that soothes everyone I
personally love retro music

Travelling I love collecting new experiences new experiences come from new places