



Amith KS

SUMMARY

Results-driven Embedded Systems Engineer with one year of experience. I am a fresher with one year of training on ARM7-based MCU LPC2148, with hands-on experience using communication protocols I2C, SPI, UART. I have a strong foundation in microcontroller architecture and am proficient in LPC2148. I am skilled in the testing and debugging of communication protocols and have proven experience in designing and debugging embedded systems.

INTERNSHIP AND TRAINING

Design and Verification Intern

PROXELERA PVT LTD(Internship)

FEB 2024 – NOV 2024

- I developed very good knowledge about these programming languages- C, C++ and about very brief knowledge about Data Structure and Algorithms.
- Have a knowledge of AMBA Bus architecture and Memory Management and architecture.

Embedded Software Intern

CRANES VARSITY

APR 2025 – Present

- Understanding and development on ARM-Cortex M3 based Microcontroller LPC1768.
- Hands-on experience using communication protocols I2C, SPI, UART.
- Currently, I am working with Microcontroller STM32F4 Series with cortex M4 Processor

PROJECTS

SKIN CANCER DETECTION USING RASPBERRY PI AND DEEP LEARNING

2022 - 2023

- Developing an affordable model for the early detection of melanoma skin cancer using deep learning.
- Introducing automated screening to reduce the workload for healthcare professionals.
- Introducing remote healthcare to offer health services to people in villages.

IR SENSOR COUNT SYSTEM FOR PARKING LOT

2025 - present

- Detects vehicles using IR sensor and calculates parking bill automatically.
- Simulates parking time using delay function via Timer0.
- Uses UART for interactive communication with the user.
- Displays all parking updates and bill on LCD.

CRICKET SCORE BOARD (USING LINKED LIST)

2025 - present

- Developed a terminal-based cricket scorekeeping system using C language and linked lists.
- Implemented dynamic memory allocation to handle flexible team sizes and real-time updates.
- Captured and displayed detailed batting and bowling statistics for two innings.

CONTACT

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SKILLS

- C/C++ Programming Language
- Embedded C - LPC1768, STM32F4
- Protocols - UART, SPI, I2C
- Peripherals - ADC, PWM, RTC, Timers
- Embedded Linux
- Data structure and algorithms
- Software tools: VS code, Keil uversion, Flash magic, Linux(OS), MATLAB, Simulink

EDUCATION

2019-2023

Vidyavardaka Collage of Engineering

- Bachelor of Engineering (ECE)
- CGPA - 8.61/10.0(81.7%)

2017 - 2019

Sadvidya semi-residential pu collage

- PCMB
- CGPA - 9.37(89%)

2007 - 2017

Karnataka Secondary School Leaving Certificate (SSLC) Examination

- Percentage - 88.16%

LANGUAGES

- English (Fluent)
- Kannada (Native)
- Hindi (Beginner)