

ARYAN KAMBLE

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PROFESSIONAL SUMMARY

Embedded Engineer with experience in microcontroller programming, robotics, and hardware-software integration. & having strong foundation in microcontroller programming. Proficient in C, C++, ARM Cortex, embedded systems design, and real-time application development. Skilled in utilizing communication protocols (I2C, SPI, UART) and understanding hardware-software integration. Passionate about solving complex problems, optimizing system performance, and delivering reliable embedded solutions. Hands-on experience with IoT projects and implementing machine learning algorithms for robotics applications. Passionate about bridging embedded systems with AI to build intelligent and reliable solutions.

EDUCATION

SAVITRIBAI PHULE PUNE UNIVERSITY

Bachelor of engineering (B.E. Electrical)
First class

July 2021

WORK EXPERIENCE

Techno Scripts, Pune | Professional Training

July 2024 - Present

- Microcontroller Programming using c/embedded c.
- I have had hands-on experience working with DC motor connections across a variety of microcontrollers, including the PIC18, LPC2148, and STM32 families
- I also worked on integrating keypads with microcontrollers to provide user input capabilities.
- I utilized the ADC modules of these microcontrollers for various applications.
- ESP8266(NodeMCU) create client-server module and connected to virtual cloud.
- 16x2 LCD for display data
- Worked on external interrupts

Consciente Technology, R&D Engineer

Aug 2021 – Nov 2022

- Controlled temperature in a cobot using LPC2148 microcontroller.
- Stored sensor-based force values on LPC2148 and applied ML algorithms to determine optimal force for object gripping.
- Utilized different Python Libraries like Pandas, Numpy, Matplotlib, Sklearn to understand behaviour of Data for Various application
- Developed and implemented object detection models.
- Performed calculations for cobot design, including motor and material selection.
- Designed a cobot and a 2-finger gripper for precise object handling.

Tools:

- VS code, ARM Keil uVision4, MPLAB IDE, STM32CubeIDE, Proteus, Arduino IDE

Technical skills:

- Embedded C/C++ Programming
- PIC18F4580
- LPC2148
- STM 32
- Communication protocols
- ESP Module
- Communication Protocols UART, SPI, I2C
- ML Algorithms
- Solidworks
- OS

TRAININGS

- Advanced Embedded System
- Certification in Artificial Intelligent

Techno scripts training institute Pune
Intellipaat, Bengaluru