

Hayakreevan J K

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EDUCATION

Vellore Institute Of Technology

Bachelor of Technology

- CGPA: 9.22

Chennai, TamilNadu

Expected 2025

Mahatma School Montessori (CBSE)

Computer Science

- 10th Grade: 85.8 / 2019
- 12th Grade: 86.4 / 2021

Madurai, TamilNadu

EXPERIENCE

Assistant Junior Engineer

Huegli Tech Engineering Pvt Ltd.,

- PCB Design Basics - Routing, Components Placements, Tracing, Fabrication
- Firmware programming using PIC (PIC16F877A) microcontroller basics
- Electronica India 2023 - Bangalore International Centre (BIEC)

September 2023 - October 2023

Bangalore, Karnataka

TECHNICAL SKILLS

Languages: C, Java, Python, Assembly

Communication Protocol: I2C, SPI, UART

Developer Tools: Arduino IDE, Keil uvision, Proteus 8 Professional, LTSpice, Tinkercad

Hardware: Arduino UNO, 8086, 8051, ESP32, STM32, PIC16F877A

Hardware tools: Oscilloscope, Soldering Kit, Signal Generator, Breadboard

PROJECTS

Streamlining Data Management for Garment Manufacturing | *Embedded System Design*

- Data Acquisition via barcodes and processing it using Python, which improved manufacturing efficiency by reducing tracking errors by 60%
- Python for database management and the tracking enhanced productivity by providing real-time updates on work completed by each employee.
- Each garment's final output includes a database tracking employee involvement, facilitated by a final barcode.

Home Automation Using IOT And Computer Vision | *Python and Embedded System*

- Data Acquisition via a camera and processing it using Python with computer vision methods.
- Utilizing an IoT MQTT broker to trigger actuators by interfacing Python with Node-RED.
- By integrating Python, IoT MQTT, and computer vision, the system significantly enhanced the automation of various home functions, leading to increased efficiency and convenience.

Dual-Level Controllable Lift | *VLSI Technologies*

- Implementing a finite state machine with multiple flip-flops.
- Cadence Virtuoso tool automates chip manufacturing processes, incorporating ERC (electrical rule check) and DRC (design rule check) capabilities.
- This project utilizes compact and essential NAND technology with a 980 nm chip design.

SOFT SKILLS

Languages: Tamil, English

Communication: Proficient and Fluent

Teamwork: Collaborative synergy

Leadership: Good Leader

Critical Thinking: Analytical reasoning

Creativity: Innovative thinking

Problem-Solving: Optimal solution-oriented

Time Management: Efficient scheduling