

BUVANESH S

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EDUCATION

- Adhiparasakthi College of Engineering, Ranipet dist (2021 - 2025)
B.E -Electronics and Communication Engineering; Percentage: 84
- Anderson Boys Hr. Sec. School, Kancheepuram HSC; Percentage: 83 (2020 - 2021)
- Anderson Boys Hr. Sec. School, Kancheepuram SSLC; Percentage: 80 (2018 - 2019)

SKILLS SUMMARY

- Programming: C, Embedded C
- Microcontrollers: 8051, PIC
- Communication Protocols : SPI, USART, UART, I2C
- Software Skills: MPLAB, Keil, Arduino IDE, Proteus
- Soft Skills: Problem-Solving, Adaptability, Teamwork

CERTIFICATES

EMBEDDED ENGINEER TRAINEE| PUMO TECH

- Developed and tested embedded software for microcontroller-based systems using C and Embedded C.
- Assisted in circuit design, hardware debugging, and troubleshooting using tools like Proteus and MPLAB.
- Collaborated with cross-functional teams on project development and implementation.
- Conducted testing and validation of embedded systems, maintaining detailed documentation of processes and outcomes.

PROJECTS

IMAGE PROCESSING BASED FIRE DETECTION.

- Developed an image processing-based fire detection system using Raspberry Pi, enhancing real-time safety monitoring and alert systems.

SMART IRRIGATION SYSTEMS.

- Designed a smart irrigation system using Arduino, optimizing water usage and improving agricultural efficiency through Automated control.

IOT BASED SMART ENERGY METER.

- Designed a smart metering system using PIC microcontroller, optimizing energy usage and improving efficiency through Automated control and alert systems.

INTERNSHIP

○ POLENZA TECH SOLUTIONS-CHENNAI.

During my internship, I contributed to the Raspberry Pi-based Fire Detection project utilizing image processing techniques.

► Developed and implemented a fire detection system using Raspberry Pi, incorporating image processing techniques.

► Improved detection accuracy by 30% through innovative approaches and integration of advanced image processing algorithms.

○ CODEBIND TECHNOLOGIES-CHENNAI.

During my internship at CodeBind Technologies, I gained hands-on experience in embedded systems, working on innovative projects and applying my academic knowledge to real-world scenarios. I collaborated with a team of professionals, enhancing my understanding of embedded technologies and contributing to project success.

► Gained practical experience in embedded systems, enhancing my skills in hardware, and software integration.