

KALYANI. S. TAMBE

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CAREER OBJECTIVE

Dynamic electronics and Telecommunication Student with a solid foundation in the Embedded systems seeking to leverage technical skills and knowledge so as to contribute effectively to innovative projects in the company leading to envisage for mutual growth.

PROFESSIONAL TRAINING

Six months of Advanced Course in Embedded Systems from **VECTOR INDIA PVT LTD**, from 6th September'2023.

ACADEMIC DETAILS

Degree and Stream	Name of the institute	University /Board	Year of passing	Aggregate percentage
BE (E&TC)	PREC	SPPU, Pune.	2023	83.41
Class XII	PKVM	MH-State Board.	2019	62.77
Class X	PKVM	MH-State Board.	2017	78.44

TECHNICAL SKILL-SET

- **Programming Languages** : C, Embedded C, C++.
- **Microcontroller** : ARM, LPC2129.
- **Communication Protocols** : CAN, I2C, SPI, UART.
- **Peripheral Interfacing** : GPIO, ADC/DAC, Timer, Interrupts.
- **Basic Electronics** : Logic gates, Sensors, Converters, Circuit design.
- **Operating Systems** : Linux, Windows.
- **Software's** : Keil, Proteus.

PROJECTS

➤ Academic Projects:

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IoT based Prediction of the Failure of Blood Pressure System (BE final project)

Project Description

As part of my academic coursework, I undertook a project focused on leveraging Internet of Things (IoT) technology to predict the potential failures in a blood pressure monitoring system. The objective of the project was to create a smart and a proactive monitoring system that could identify and alert the medical

personnel about the possible malfunctions or inaccuracies in the blood pressure measurement device, ensuring timely maintenance and avoiding the critical errors in a patient care.

Project Achievements:

1. Real-time data analysis and predictive monitoring capabilities demonstrated the system's potential proactive usage in healthcare applications.
2. The use of Arduino Mega and Node MCU showcased my proficiency in microcontroller programming and IoT technologies.

○ Vector Projects: -

1. **In C: -** 1) Designed user defined A to F and A to I function
2) Designed user defined string functions.
2. **In Arm: -** 1) Calculator.
2) Data Acquisition System (SPI, ADC).
3) Implement Smart Phone Based Home Automation Using HC05 Bluetooth Module.

ACHIEVEMENT AND ACTIVITIES

- **Research Paper Publication:** Published a research paper titled as “IoT based Prediction of the Failure of Blood Pressure System” in an international journal of advanced research in the science, communication and technology demonstrating research skills.
- Achieved 1st rank in the Electronics, demonstrating excellence in understanding and applying the principles of electronic engineering.
- Achieved 2nd rank in the BE last year.

STRENGTHS

- Regularity, sincerity, Amicable.

PERSONAL DETAILS

Date of Birth : 4th March 2001

Permanent Address : A/P - Dadh, Dist - Ahemdnagar, Maharashtra 413714

Languages known : English (R/W/S), Marathi(R/W/S), Hindi(R/W/S)

Marital : Unmarried.

DECLARATION

I do hereby declare that the above information is true to the best of my knowledge and belief.

Place:

Date :

(KALYANI. S. TAMBE)