

RAM AXAY

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ELECTRONICS AND COMMUNICATION ENGINEER

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ABOUT :

- I am a final-year Electronics & Communication Engineering student with a good understanding of C programming microcontroller basics(8086,ARM7),and practical experience using Raspberry Pi 5.
- I am interested in working on real-time systems embedded software, Linux-based development ,and Hardware & Software Interaction.

PROJECT WORK EXPERIENCE :

- 1. Wireless Surveillance System Using ESP32-CAM & Telegram Bot :**
Built a simple wireless camera using the ESP32-CAM module that sends live images to Telegram for realtime monitoring.
- 2. Sinewave PCM Generator in C :**
Created a C program to generate a sinewave and save it as a .raw PCM audio file.Verified the output using the Audacity audio tool.
- 3. Raspberry Pi 5 based LED Blink & Ultrasonic Sensor (Linux + C) :**
Used C programming on Raspberry Pi 5 to blink an LED and measure distance with an ultrasonic sensor by controlling GPIO pins on Linux.
- 4. Women Safety Device using GSM and GPS:**
Built a safety device using GSM and GPS to send location and make a call with one button press.

EDUCATION :

- GUJARAT TECHNOLOGICAL UNIVERSITY - BACHELOR OF ENGINEERING(B.E.) | CGPA: 8.13
- VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE(VGEC) [2022-2026] | CPI : 7.38

SKILLS :

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| 1. PROGRAMMING | : C Language, (basic) 8086 Assembly , Debugging |
| 2. MICROCONTROLLER | : ESP32 , ARM7 |
| 3. GPIO PROGRAMMING | : Used for controlling sensors/LEDs with Raspberry Pi 5 |
| 4. LOGICAK THINKING | : Apply reasoning to understand and write code |
| 5. COMMUNICATION | : Share ideas clearly in speaking and writing |
| 6. PROBLEM SOLVING | : Solve issues by thinking clearly and effectively |

CERTIFICATE :

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| 1. C LANGUAGE | -BHARAT ACHARYA EDUCATION | 12/2024 |
| 2. 8086 (MICROPROCESSOR) | - BHARAT ACHARYA EDUCATION | 09/2024 |
| 3. ARM7 (MICROCONTROLLER) | - BHARAT ACHARYA EDUCATION | 08/2024 |
| 4. INTRODUCTION TO C PROGRAMMING FOR THE RASPBERRY PI – UDEMY | | 06/2025 |
| 5. C PROGRAMMING LANGUAGE | - PYJAMA BRAH | 2025 |
| 6. POINTER , BIT MANIPULATION AND DATA STRUCTURE | - PYJAMA BRAH | 2025 |

