

KATHAN MASTER

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Location: Surat, Gujarat, India.



EDUCATION

- **Bachelor's in Electronic and Communication**
L.D. College of Engineering
SEP 2022 – MAY 2025
CGPA: 7.30
- **Diploma in Electrical Engineering**
Chhotubhai Gopalbhai Patel Institute of Technology
AUG 2019 - MAY 2022
CGPA: 7.72
- **10th Secondary School Certificate (S.S.C.)**
L.P. Savani Vidhyabhavan
APR 2018 – MAR 2019
Percentage: 51%

EXPERIENCE

- **Swasau Technology Embedded Intern**
JAN, 2025 - APR, 2025
I developed a prototype smart stethoscope using INMP441 microphone and ESP32, later upgraded to XIAO nRF52840 for efficient BLE and low power consumption. Implemented real-time audio Streaming & Noise filtering using python GUI, and vital health monitoring heart rate, SpO2, and temperature. Gained hands-on experience with hardware debugging, jig communication, AT commands, and firmware uploads and also done hardware soldering.

HOBBIES

- Photography and videography
- Video-Editing
- Carrom
- Drawing

AREA OF INTEREST

- Learn new sensor and microcontrollers
- Embedded System
- Industrial IoT
- Drone Technology
- PCB Design

ABOUT

Completed my Bachelor's in Electronics and Communication Engineering with a Diploma in Electrical Engineering. Hands-on experience with Arduino, ESP8266/32, and Raspberry Pi and Good knowledge of sensors. I completed projects on Home Automation & Drone Technology. Currently I am preparing for GATE examination.

PROJECT

- **Multi-Purpose Drone (Proto-type Model)**
I made a Drone using an F450 Frame for 3 purposes photography, farming applications, and pick-and-place operations.
- **Drone Base Magnetic Sensing Anomaly Detection (SIH - Half Done)**
Using Raspberry Pi in a drone to detect magnetic anomalies of the earth's surface, which are displayed on UGCS & QGIS software used for path planning and mapping a particular area.
- **Home Automation**
Using the CADIO tool and its firmware, I uploaded the firmware into ESP8266 using ESP FLASHER.
- **Automated Dip Prajwalan (Vaidic-Spark) (SSIP)**
Currently working on Dip Prajwalan using automation. This project ignites Diya using Electric-ARC.

SKILLS

- Basic C/C++ and Python
- Arduino UNO, Nano, ESP8266, 32 & 32 CAM, Raspberry Pi, XIAO NRF52840
- Arduino IDE, EASYEDA for PCB Design

ACHIVEMENTS

- Circuit Debugging on NTD-23 (2nd)
- Smart India Hackathon (College Round)
- Student Startup and Innovation (SSIP)