JANWALKAR MANJUSHA MUKUND

B.Tech. - Electronics Engineering

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Janwal, Maharatra, India - 413529

EDUCATION

MIT Academy of Engineering, Pune   2023 - 2027
B.Tech. - Electronics Engineering | CGPA: **7.66 / 10**

Goverment Residential Women's Polytechnic,Latur   2024
Diploma | Diploma - Electronics & Communication Engineering - Electronics & Communication Engineering | MSBTE |
Percentage: **81.71 / 100**

Sarswati Madhyamik Vidyalaya, Janwal, Janwal   2021
10th | MSBSHSE | Percentage: **90.80 / 100**

INTERNSHIPS

Amb's C-DSP   01 Jun, 2023 - 15 Jul, 2023
Participant in Industrial Training

Key Skills: Variables & Data Types   Control Structures (if-else, loops)   Basic Input/Output operations   - Operators

"Trained in C fundamentals including variables, data types, operators, control structures, functions, arrays & pointers. Completed hands-on projects & exercises enhancing problem-solving skills. Applied C programming concepts for real-world applications."

PROJECTS

Greenhouse Monitoring System   01 Sep, 2025 - 31 May, 2026
Mentor: Prof. Ashish Muljakar | **Team Size:** 4

Key Skills: IoT system design using ESP8266   Sensor interfacing and data monitoring

The Greenhouse Monitoring System is an automated IoT-based project designed to maintain suitable environmental conditions for plant growth. It uses the ESP8266 microcontroller to monitor important parameters such as temperature, humidity, soil moisture, and light intensity through various sensors.
the system automatically controls output devices to maintain optimal conditions inside the greenhouse:
1.Fan turns ON when the temperature is high.
2.Water Pump activates when soil moisture is low.
3.LED Light switches ON when light intensity decreases.
4.Humidifier operates when humidity is low.

Weather forecasting system   05 Sep, 2024 - 31 May, 2025
Mentor: Prof. Savita Pawar | **Team Size:** 4

Key Skills: IoT, Arduino programming, sensor interfacing,   real-time monitoring.

Weather Forecasting System is designed to measure and predict weather conditions such as temperature, humidity, and pressure using sensors and a microcontroller. It uses IoT technology to send real-time data to the cloud for monitoring and analysis.

The system includes DHT11 / BMP180 sensors, an Arduino or NodeMCU board, and a Wi-Fi module (ESP8266) for data transmission. Collected data is displayed on an LCD screen and uploaded to platforms like ThingSpeak or AWS Cloud.

This project helps in real-time weather monitoring for applications in agriculture, aviation, and environmental studies. It is low-cost, energy-efficient, and reliable, providing accurate forecasts and supporting smart and sustainable solutions for future weather prediction.

Solar -powered Agriculture Fertilizer Spread Robot   01 Aug, 2023 - 31 May, 2024
Mentor: Mr.I.S.Awale | **Team Size:** 3

Key Skills: Embedded Systems   Arduino Programming   RF Control   Motor Driver Interface   Solar Power Utilization

This project describes a solar-powered multipurpose agriculture robot that helps farmers do tasks like grass cutting and fertilizer spraying with very little manual effort. The main controller of the system is an ATmel 8051 microcontroller.

The robot works wirelessly using a transmitter and receiver. The user holds the transmitter (remote) and sends commands. The receiver on the robot has eight control buttons that allow the operator to move the robot in different directions and turn ON functions such as grass cutting or fertilizer spraying.

Two L298D motor driver ICs are used to run six DC motors. Four motors are used for moving the robot, and the remaining two motors

operate the cutting blade and the fertilizer spraying pump. The cutting mechanism has a rotating shaft that can move up and down to adjust the height. The spraying unit uses a motor-driven pump to spray fertilizer.
Overall project control through only RTx remote

SEMINARS / TRAININGS / WORKSHOPS

Entrepreneurship Bootcamp   11 Mar, 2024 - 13 Mar, 2024

Institute Name: Government Residential Women's Polytechnic, Latur

Key Skills:

| PCB Design and Layout | Electronic Circuit Understanding | Component Placement Techniques | Use of PCB Design Software |

Hands-on Practical Experience

An Entrepreneurship Bootcamp was organized to provide practical training and skill development. In this bootcamp, we were taught how to design Printed Circuit Boards (PCB). The training helped us understand the basics of PCB layout, component placement, and circuit design using design software.

EXTRA CURRICULAR ACTIVITIES

- I have participated in zonal-level Kabaddi tournaments.

PERSONAL INTERESTS / HOBBIES

- Reading, music, travelling, teamwork, learning new skills, sports.

PERSONAL DETAILS

Gender: Female

Marital Status: Single

Current Address: Alandi, Pune, Janwal, Maharatra, India - 413529

Date of Birth: 17 Nov, 2005

Known Languages: Marathi,Hindi,English

Permanent Address: At.Post Janwal TQ:- Chakur, Dist:- Latur, Latur, Maharashtra, India - 413512

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