Jaykumar Girase

Shirpur | jaykumargirase.@gmail.com | +91 8010582428 | linkedin.com/in/JaykumarGirase | github.com/jaykumargirase

Career Objective

Electrical Engineering student with expertise in automation, IoT, and renewable energy. Skilled in programming, open-source contributions, and data structures algorithms. Passionate about software development, smart grid optimization, and solving real-world challenges through technology.

Education

R C Patel Institute of Technology, Shirpur, Maharashtra, Electrical Engineering

Nov 2022 - Present

• GPA: 5.50/10.0

R C Patel Junior College, Shirpur, Maharashtra, HSC

June 2020 - June 2022

• Percentage: 87.40

R C Patel Secondary and Higher Secondary School, Shirpur, Maharashtra, SSC

2019 - 2020

• Percentage: 89.40

Experience

Stem Educator and Media Design Intern, STEMSAGE TECHWORLD LLP, Shirpur

May 2024 - Aug 2024

- Led Arduino and electronics workshops, developing course materials and project guide s.s
- Conducted hands-on training sessions on robotics, IoT, and coding, engaging students in interactive STEM learning.

Publications

Integration of Solar and Wind Tracking System

December 2024

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Projects

Automatic Plant Water Irrigation System

Jun 2022

- Developed an automated irrigation system using soil moisture sensors and a microcontroller.
- Programmed the system to activate water pumps when soil moisture levels dropped below a predefined threshold.

Integration of Solar and Wind Tracking System

Dec 2024

- Designed a hybrid renewable energy system to track solar and wind energy sources for maximum efficiency
- Utilized microcontrollers and sensors to dynamically adjust the position of solar panels and wind turbines based on environmental conditions

Energy Consumption Forecasting for Smart Grids (Major Project

ongoing

- Developed a predictive model to forecast energy demand in smart grids using machine learning.
- Integrated real-time data analysis to optimize energy distribution and reduce wastage.

Technologies

Programing Languages: C++, C, Java, python, vue.js, react.js, jupiter notebook.

Devlopment Tools: Arduino IDE, Visual Studio Code, Photoshop, Filmora, PLC.

Hardware Tools: Soldering, DMM, IOT.

Achievements

Toy Making Competition at RCPIT

Feb 2025

• 1st Place.

German Language Proficiency:

Feb 2025

• Successfully cleared the Goethe-Zertifikat A1 (Institute Level).

Robo Racing at COEM, Jalgaon

Feb 2024

• 1st Runner Up