

# Kirtiraj Sardesai

[kirtirajsardesai69@gmail.com](mailto:kirtirajsardesai69@gmail.com) | 9284717313 | Kolhapur, India | [kirtirajsardesai.netlify.app](https://kirtirajsardesai.netlify.app)

## EDUCATION

### B.Tech Electronics and Communication

Sanjay Ghodawat University, Atigre, Maharashtra 7.80/10

2021 - 2024

## WORK EXPERIENCE

### Circuit Design Intern

Light Guide Optics Pvt. Ltd. Indore- 452015(MP)

Jan 2023 - Feb 2023

- Conducted circuit design for Telescope pan-tilt using motors.
- Developed analog and digital circuits for various applications, ensuring optimal functionality and performance.
- Proficient in using industry-standard PCB design tools such as Altium Designer and EasyEDA.
- Proficient in all aspects of mirror grinding, starting from initial blank preparation to achieving the desired curvature and surface quality.

### Freelancing Projects

- Soldier Health Monitoring
- IOT based Grid Monitoring System
- Cat9 ECU Monitoring System
- LORA based Agriculture Automation
- Esp32 Based Pentesting device

## SKILLS

#### Programming Skills

ASM, Linux, Embedded Development, Python, C, C++, JavaScript, HTML, CSS, Node.js, MongoDB, SQL, Git, GitHub, blynk cloud

#### Soft Skills

Problem Solving, Interpersonal Communication, Teamwork, Adaptability

#### Software

Vscode, Arduino, Cubelde, ESP-IDF, Altium, Fusion360, Keil, PLC&HMI, PlatformIo

## PROJECTS

### CAT9 ECU Monitoring Using AVR & HMI/PLC.

Freelancing Project

Developed an Electronic Control Unit (ECU) Data Monitoring and Controlling system leveraging Controller Area Network (CAN) technology. This project enhances real-time data monitoring and control capabilities, ensuring efficient communication between electronic components in vehicles. The solution optimizes performance, reliability, and safety in automotive systems through seamless CAN communication.

### Software Define Radio Design using AVR.

[https://github.com/RefreshMyMind-I/Arduino\\_SDR](https://github.com/RefreshMyMind-I/Arduino_SDR)

SDR stands for Software-Defined Radio. It refers to a radio communication system where traditional hardware components, such as mixers, filters, and amplifiers, are replaced or augmented with software algorithms running on a computer or a dedicated processor.

### Written Library for Zmpt101

<https://github.com/RefreshMyMind-I/ZMPT101B>

Created a comprehensive written library for the ZMPT101 module. This library facilitates easy interfacing with the ZMPT101 module, enabling accurate AC voltage measurement and enhancing the accessibility of this sensor for developers in various applications, including power monitoring and control systems.

### Focuser For Astrophotography Telescope

Developed a do-it-yourself (DIY) telescope focuser system to enhance astronomical observations. This project involves creating a precise and motorized focusing mechanism for telescopes, improving the ease of use and accuracy during celestial observations. The DIY focuser incorporates stepper motors, Arduino-based control, and a user-friendly interface, making it an accessible and cost-effective solution for amateur astronomers looking to upgrade their telescope capabilities.