

# Priyanka S

Mail | Phone | LinkedIn | Naukri | GitHub

## EDUCATION

### KONGU ENGINEERING

BE IN ELECTRICAL AND  
ELECTRONICS

2018-2022 | CGPA:8.56/10

### SRI VIDYA MANDIR

HSC

2018 | Percentage: 89

### SRI VIDYA MANDIR

SSLC

2016 | Percentage: 94

## SKILLS

### LANGUAGE

C

C++

### SOFTWARE TOOLS

MATLAB

Simulink

PLC (Ladder Logic)

## COURSEWORK

- Power Electronics
- Electric Vehicles
- Digital Electronics
- Circuit Analysis
- Control Systems
- No-code Machine Learning

## ACTIVITIES

### IET MEMBER

(2019-2022)

Collaborated with  
cross-department teams in  
technical sessions and projects

### ENGLISH PROFICIENCY

CLUB MEMBER

(2018-2022)

Managed bi-weekly club meetings  
focused on diverse topics, boosting  
participation by 35 %

### PAPER PRESENTATION

Delivered numerous presentations,  
but gained commendation for the  
presentation on **MOLETRONICS** as  
a unique and forward-thinking topic

## CERTIFICATION

### MATLAB AND SIMULINK COURSES:

**MATLAB** | MATLAB ONRAMP | DEC 2024

Mastered foundational MATLAB functionalities like matrix operations and script creation

**MATLAB** | SIMULINK ONRAMP | DEC 2024

Gained hands-on expertise in foundational software functionalities like creating, editing, simulation, and modeling using block diagrams

**MATLAB** | ADVANCED MATLAB PROGRAMMING SKILLS | DEC 2024

Learned to construct efficient, robust, and user-friendly code, including choosing optimal data types, debugging, and creating functions

### EV COURSES:

**FORAGE** | EV ENGINEERING INTRODUCTORY COURSE | JULY 2024

Analyzed EV battery performance by analyzing Excel data and tuning a PID controller with Python code

**FORAGE** | EV ENGINEERING INTERMEDIATE COURSE | AUG 2024

Conducted cost-effective analysis for EV batteries and LiDAR sensors, evaluating form factors and sensor models for cost, safety, durability, and performance optimization

**COURSERA** | ELECTRIC VEHICLE OPERATION AND DIAGNOSIS | JAN 2025

Acquired expertise in system-level design, functional safety, and vehicle control systems, including key components, ECU, BMS, and diagnosis

## EXPERIENCE

### FINAL YEAR PROJECT

#### VEHICLE THEFT ALERT AND ENGINE LOCK SYSTEM

- Developed an **user-friendly application** that allows the owner to access the vehicle from a mobile device through an IoT module, creating a **smart mobility solution**
- Implemented a **fingerprint-based ignition coil locking system**. Reduces the **risk of two-wheeler theft by 50 %** and ensures enhanced vehicle security by **75 %**

### PRE-FINAL YEAR PROJECT

#### DISTRIBUTION FAULT IDENTIFICATION AND PROTECTION USING LABVIEW

- Designed a LabVIEW-based module to detect 3 basic fault conditions - **over-current, over-voltage, and under voltage fault** of the system.
- This **reduces the manual operation** of handling faults by **65 %** and enhances fault analysis, energy efficiency, system protection
- **Published** this technical paper at the **IEEE Conference**

### IN-PLANT TRAINEE

THE STEEL AUTHORITY OF INDIA LTD (SAIL), SALEM STEEL PLANT (SSP)

7 Days (Apr 22 - 28, 2021)

Explored **production processes and Level 2 automation** of 2 main sections of the company - Hot Rolling Mill (HRM) and Cold Rolling Mill (CRM)