



NANDANA JAYAKUMAR

PROFILE SUMMARY

A highly motivated B.Tech student in Electrical & Electronics Engineering with a strong desire for open communication. I thrive in collaborative environments and present a devoted and reliable approach to my work. I rely on making well-informed decisions by gathering relevant information and cooperating with others as needed.

My logical and organized thinking provides for a straightforward and disciplined approach to problem solving. I would be delighted to leverage my technical knowledge, excellent communication skills and expertise in event management to innovative workplace projects.

ACADEMIC QUALIFICATION

1. Btech. (Hons.) in EEE & Minors in CS

- NSS College of Engineering, Palakkad 2021-2025
- Aggregate: 9.15 (till S5)

2. Senior Secondary

- Amrita Vidyalayam, Palakkad (CBSE) 2021: 97.6 %

3. Secondary

- Amrita Vidyalayam, Palakkad (CBSE) 2019: 96.6 %

INTERNSHIPS

1. Kerala State Electricity Board, 110 KV Sub-station: June 2024

- Acquired knowledge in substation function, HV equipment upkeep, power transmission theory, and problem-solving for electrical systems

2. Southern Railways, 25 KV Traction Substation, Depot: June 2024

- Deepened understanding of traction substations that power trains, including the maintenance of overhead lines and masts

3. Power Best Electricals Pvt. Ltd. : May 2023

- Gained knowledge about the different types of electrical equipments used for power generation, transmission & distribution.

4. Marpu Foundation(NGO):February 2024 – March 2024

- Collaborated with the marketing team on strategic marketing campaigns, socialmedia management, content creation and enhancing brand visibility.

PROJECTS

1. Simulation of Antilock Braking Systems using MATLAB

Developed a virtual Anti-Lock Braking System (ABS) in MATLAB Simulink and analyzed the impact on various vehicle parameters during braking.

2. Traffic Signaling System

Developed a traffic light system using readily available components, with a 555 timer generating precise timing signals for controlling red, yellow, and green lights.

3. Smart Bulb using Clap Feature

Developed a smart bulb that toggles on/off with a clap, using the IC4017 decade counter and BC547 transistor for sound signal processing and relay control.

4. Wildlife Monitoring System

Developed a system using Arduino and PR sensor which produces a beep sound when any sort of movement occurs in the vicinity of the sensor and thus alerts the inhabitants.

LANGUAGES KNOWN

- English, Malayalam, Hindi

CONTACT

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COMPETENCIES

TECHNICAL

- Electrical Machines
- Power Systems
- MATLAB
- Python
- IOT
- ETAP

NON-TECHNICAL

- Communication
- Time Management
- Adaptability

POSITIONS OF RESPONSIBILITY

IE(I) Electrical Chapter, NSSCE:

- Volunteer (Nov 2021 - Present)
- Content Head (April 2023 - 2024)
- Creative Lead (April 2024 - Present)

DYUKSHA'23 Technical Fest, NSSCE:

- Volunteer

ACHIEVEMENTS

1. Competitions

- State Level Winner of YIP 4.0
- Winner of Intra-College Group Discussion Competition

2. Certifications

- MATLAB by Udemy
- E-WASTE by IIT KGP
- IOT by IIT KGP

3. Events Organized

- SUSTANTIA - Idea Pitching Contest
- Placement Talk
- Quiz Competition

4. Workshops

- Arduino
- Advanced Python & Automation

AREAS OF INTEREST

- Power Systems
- Signals & Systems
- Embedded