VINAYAK PRASAD S.

ELECTRICAL AND ELECTRONICS ENGINEERING

CONTACT

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EDUCATION

Bachelor of Technology

Electrical and Electronics Engineering

Rajiv Gandhi Institute of Technology
2020 - 2024

Higher Secondary & High School

The Warwin Senior Secondary School | 2016-2020

Class XII - **89.4 %** | CLASS X - **90.2%**

SOFT SKILLS

- Leadership
- Management Skills
- Communication Skills
- Decision Making
- Quick Learner

TECHNICAL SKILLS

- Embedded systems : Arduino UNO, Nano,ESP-32, 8085, 8051
- Programming : Embedded C, C++, Python
- Simulation : Matlab & Simulink
- PCB Designing : Easy EDA, Altium -beginner

SOFTWARES

- Matlab & Simulink
- EasyEDA
- Altium - Beginner
- Keil - Arm cortex | 8085 µc
- Arduino IDE ,Tinkercad
- LateX
- Power world simulator

PROFILE

Motivated and driven individual with a hunger for learning innovative concepts and growing technology. Experienced in leading a team and willing to take the responsibility and prioritizing tasks to meet the deadline.

PROFESSIONAL EXPERIENCE

- **IIT Madras - Nirmaan** | Project Intern | Chennai

Developed an advanced electrical control system for a sit-to-stand lifting mechanism, utilizing an **STM32 microcontroller** and dual **24V BLDC motors**. This system improves the mobility and independence of paraplegics by incorporating a user-friendly **joystick interface** and **differential drive** technology. It facilitates smooth and precise maneuvers, enabling effortless transitions from sitting to standing and turns.

- **KSEB 110kV Substation & Neriamangalam power station** | Intern Adimali, Idukki, Kerala :

Conducted an in-depth study of substation operations at the Adimali 110kV substation, gaining firsthand exposure to **control systems**, **transmission mechanisms**, and routine **maintenance** procedures. Analyzed the functioning of a hydropower plant, encompassing **generation**, **transmission**, and **control systems**, at Neriamangalam Powerhouse.

ACHIEVEMENTS

- **AIR 1 - EFFI-QUE ADAS Category EFFICYCLE SEASON 14:**

Secured **Overall Championship** in Effi-Que ADAS category National level competition EFFICYCLE SEASON 14 conducted by SAE NIS which aims at building an EV from scratch within the rules provided and implementing industrial relevant and innovative Advanced Driver Assistance Systems.

- **Best Innovation for EFFI-QUE ADAS EFFICYCLE SEASON 14:**

Secured the best innovation prize for Effi-Que ADAS category vehicle.

PROJECTS

- **Regenerative system & Wiring harness for an EV | EFFI-QUE | SAENIS :** Designed and developed a **regeneration system** including a drive and a boost converter for an electric vehicle deploying **48V 750W BLDC** motor and developed and implemented complete wiring harness for the vehicle.
- **Electric Scooter** | SAEISS Electric Two Wheeler Designing Competition 2023 : Developed an advanced electrical control system and **ADAS** features for an innovative electric scooter.
- Gesture controlled car | Arduino UNO | Accelerometer | RF Bluetooth module

LEADERSHIP

- Career Guidance and Placement Cell - **Department Lead**
- SAEISS Electric Two Wheeler Designing Competition 2023 -**Team Captain**.
- SAE NIS Effi-QUE Team : Electrical Dept. head
- VIDYUTH 2022 (Department Technical fest) - **Coordinator**
- **Class representative** (2021-2022)