

PAMBALA ABHILASH

H no-233f, Block no-30B, Singareni colony, Saidabad, Hyderabad – 500059 | pambala.aa@gmail.com | 9390235663

OBJECTIVE: Applying for admission to the MS in Electrical and Computer Engineering program at the Technical University of Darmstadt for Fall Intake 2022.

EDUCATION

B. Tech in EEE , Mahatma Gandhi Institute of Technology, Gandipet, CGPA - 6.81/10.00	July 2021
Diploma in EEE , TRR College of Technology, Meerpet, Hyderabad, - 79.12%	May 2018
10th Grade , Spark High School, Durga Bhavani Nagar, Hyderabad, CGPA - 9.00/10.00	May 2015

RESEARCH INTERESTS: Uses of AI in Smart Grid, Electric Vehicles, Power Quality, Industrial Automation, Electric Drives & Control, Power Electronics.

COURSEWORK TAKEN: Smart Grid, Electrical Machines, Power Systems, Power Electronics, Power Semi-Conductor Drives

INTERNSHIPS

HIEE, Hyderabad	June 2020
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Substation Design

- Studied designing of 132/33kv substation in the AutoCAD environment
- Learned about all components present in substation starting from Lighting arresters, conductors, insulators, instrumental and power transformers, relays, circuit breakers, bus bars, capacitor banks, isolators.
- Also done a virtual visit to get a better understanding.

Trainee, National small Industries Corporation (NSIC)	May 2017
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National Small Industries Corporation Limited is a Mini Ratna government agency established by the Ministry of Micro, Small and Medium Enterprises, Government of India in 1955.

- Studied concepts of domestic wiring, energy meters and its calibration on different types of load.
- Learned working of solar PV system throughout the day by using tracking system to capture maximum solar radiation on panels.

- Studied PLC basics and details about substation.

Course Project

Modeling and simulation of Hybrid Power Plant using Renewable Energy Resources

Mar 2021 - July 2021

Renewable energy sources are quite popular in developing countries due to lack of fossil fuels and also due to its availability, and it is pollution free.

- Designed a Hybrid Power Plant By combining Wind Power Plant and Solar Power Plant with CUK and SEPIC convertors
- This converted Power is given to AC loads and DC loads depending up on requirements.
- Obtained 90% efficiency with output.

Study of protecting equipments of substation

June 2020 – July2020

Substation acts as an intermediate between generation, transmission and distribution of power by changing voltage range from low to high and vice versa to consumers(domestic and industrial). So, protecting substation must and should.

- Studied about various protective equipments like lightning arresters, relays, isolators, circuit breakers, fuses of a sub-station.
- Learned about their various types and their operation.

Automatic Street lighting

Nov 2017 – Mar 2018

The aim of this project is to turn off street light automatically during day time or sunny days.

- Designed a LDR(light resisting diode) based equipment which gets turned on or closes the circuit only when there is no light falling on LDR and Opens the circuit automatically when light falls on LDR which turns off street light automatically.
- Obtained 95% efficiency.

CERTIFICATION

- Electrical construction site installation & management, Aahmed Salah Desoky, Udemy, June 2020
- Substation design, HIEE, July 2020
- Electrical distribution LV design AutoCAD, Dialux & ETPA
- IOT based smart home automation system on budget

- Renewable & non Renewable energy sources and the future, Muhammad Hashir Ali, Udemy, Feb 2022*

TECHNICAL SKILLS: Python, Java(OOPS concept), Dialux, MS Word, MS Excel, ETAP.

AWARDS AND EXTRA – CURRICULAR ACTIVITIES

- Secured 1st place in drawing in Inter school level competition in 2012
- Secured 2nd place in kabaddi organized by MGIT in 2019
- Awarded by participation certificate for paper presentation organized by TRR College of Technology in 2015

LANGUAGES : English, Hindi, Telugu(Read/ write/ Speak)