Samrat Sagardeep Ghosh

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2015 - 2019

CAREER OBJECTIVE

To obtain a job or internship working with professionals who will allow me to learn and grow, and utilize my electrical knowledge and programming skills.

EDUCATION

M. Tech. in Power Electronics & Drives, National Instiute of Technology Delhi 8.27 CGPA 1st year	2021 – Ongoing
B. Tech. in Electrical Engineering, Techno India, Salt Lake under MAKAUT University 8.08 CGPA XII(Senior Secondary) – CBSE Board, Kendriya Vidyalaya Cossipore 84.8 %	2015 – 2019 2014

PROJECT & TECHNICAL EXPERIENCE

INTERNSHIP: MITSUBHISHIPLC (QSERIES) & HMI (GSSERIES)

- · Introduction to PLC, Ladder Diagram
- Functional Block Diagram (FDB)
- Human Machine Interface (HMI)
- Industrial Project on Car Parking Management System

INTERNSHIP: EASTERN RAILWAY (SEALDAH DIVISION)

- Types of Generation Mechanisms in Trains
- · Types of Coaches
- · Power Scheme of Rajdhani
- · Power Scheme of Non-AC Coaches
- · Sealdah Power House HT and LT Schemes

PROJECT: CAR PARKING MANAGEMENT SYSTEM

Automatic Car Parking System using GX Works 2

PROJECT: REGENERATIVE BREAKING IN DC MOTOR USING CHOPPER

Regenerative Breaking of DC motor Four Quadrant DC chopper Drive using PI Controller in MATLAB

PROJECT: DESIGNING DIFFERENT CONVERTERS IN SIMULINK

- Finding the L_{crit} and C_{crit} values
- Making the state space representation
- Modeling the converters based on state space representation in simulink
- Converters designed: Buck, Boost and Buck-Boost

PROJECT: MPPT OF PV USING TRADATINAL MPPT, PI AND BACKSTEPING CONTROLLER

Prime Minister's Scheme under Nation Defence, Prime Minister of India, Narendra Modi

- · MPPT of PV using tradational P&O
- MPPT of PV using P&O to find the v_{ref} for the PI and using that v_{ref} to generate control signal for the switch via PI controller
- MPPT of PV using P&O to find the v_{ref} for the PI and using that v_{ref} to generate control signal for the switch via non-linear backstepping controller

PROJECT: SOLAR WIND HYBRID MODEL IN MATLAB

- Solar PV Working at MPPT using InC
- Wind Turbine Connected with PMSG working at MPPT using PO
- Battery connection with close loop to maintain DC bus voltage
- Grid connection with phase lock loop

CERTIFICATES

Basics of C++ with Data Structures and Algorithms, Coding Ninjas Master Program in Cyber Security, Simplilearn with EC-Council & MIT Schwarzman College of Computing Aug 2021 – Jan 2022

Faculty Development Programme on "Modern Trends in Manufacturing Processes and Control Techniques in Renewable Energy System", Department of Mechanical Engineering, National Institute of Technology Delhi 16 Nov 2021 – 21 Nov 2021

SKILLS

Tools and LanguagesC, C++, WordPressQuantitative ResearchMATLAB, Proteus, PSpiceCommunicationEnglish, Hindi, Bengali

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ACTIVITIES

IEEE NIT Delhi Coordinator Volunteer in PIICON 2022 IEEE PIICON 2022 Web Page Designing IEEE NIT Delhi Web Page Designing Oct 2021 – Present NOV 2022 Feb 2022 – Nov 2022 Nov 2021 – Feb 2022