Samrat Sagardeep Ghosh

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Career Objective

To obtain an internship or job working with experienced engineers, that will utilize my design 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	2015 – 2019
XII(Senior Secondary) – CBSE Board, *Kendriya Vidyalaya Cossipore*	84.8 %	2014
X(Secondary) – CBSE Board, *Kendriya Vidyalaya Cossipore*	9.6 CGPA	2012

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
- 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

Certificates

Basics of C++ with Data Structures and Algorithms, *Coding Ninjas*	Feb 2022 – Sep 2022
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
Prime Minister's Scheme under Nation Defence, *Prime Minister of India, Narendra Modi*	2015 – 2019

Skills

Tools and Languages	C, C++, WordPress
Quantitative Research	MATLAB, Proteus, PSpice
Communication	English, Hindi, Bengali

Activities

IEEE PIICON 2022 Web Page Designing	Feb 2022 – Present
IEEE NIT Delhi Coordinator	Oct 2021 – Present
IEEE NIT Delhi Volunteer (Web Developer)	Sep 2021 – Present
IEEE NIT Delhi Web Page Designing	Nov 2021 – Feb 2022