

Work address**Dream Institute of Technology**

Samali, Thakurpukur, Kolkata-700104

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Sushovan Roy

Career Objective

To secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills and secure a responsible career opportunity to fully utilize my training and skills, while making a significant contribution to the success of this organization.

Summary of Skills

Comprehensive problem solving abilities, efficient, hardworking and energetic, adaptive and compatible, good verbal and written communication skills, ability to deal people diplomatically, and willingness to learn.

Relevant Work Experience:

Sl. No.	College Name	Designation	Duration	Experience
1	Dream Institute of Technology Thakurpukur, B.H.Road, Samali, Dist.: South 24 Parganas, Kolkata-700104, West Bengal	Assistant Professor Department of Electrical Engineering (EE)	25 th August to till now (25/08/2020—till now)	2 Years 6 months
Total Experiences			2 Years 6 month	

Educational Credentials

Degrees Awarded	College / School (University / Board)	Year of Passing	Stream/ Branch	Percentage / DGPA
M.Tech.	Dr . B. C. Roy Engineering College, Durgapur, West Bengal (MAKAUT, WBUT)	2019	Electrical Engineering (Specialization of power System Engineering)	DGPA-9.38 Per.: 86.3%
B.Tech.	Dr . B. C. Roy Engineering College, Durgapur, West Bengal (MAKAUT, WBUT)	2017	Electrical Engineering	DGPA: 8.67 Per.: 79.20%
Diploma	Kanyapur Polytechnic (Govt.), Asansol, West Bengal (WBSCTE)	2014	Electrical Engineering	83.40%
12th Standard	Bidhan Chandra Institution, Durgapur West Bengal (WBCHSE)	2011	Science Stream (Math, Physics, Chemistry & Biology)	74.40%
10th Standard	Dhadka Narayan Chandra Lahiri Vidyamandir, Asansol, West Bengal (WBBSE)	2009	General (Bengali, English, Mathematics, Physical science, Life Science, History & Geography)	76.37%

Career Achievements

University (MAKAUT, formerly known as WBUT) **Bronze Medal** recipient for outstanding performance in the Master's Degree examination (M.Tech.) which will be held in the year **2nd December 2019**, standing **3rd position in all over West Bengal** in the **Electrical Engineering** Department in the **Specialization of Power System Engineering**.

Industrial Training

1. Summer Internship In **Chittaranjan Locomotive Works (CLW)** on brief idea about **Electric Locomotive and Electric Railway Traction** from 4th August 2016 to 30th August 2016
2. 5-Days Residential Entrepreneurship Development Program On **Solar Photo-Voltaic(PV) Rooftop System** Organized By **National Institute Of Solar Energy(NISE), & Ministry Of New-Renewable Energy (MNRE)**, Govt. Of India- USAID Pace-D, In **National Power Training Institute (NPTI) Eastern-Zone, Durgapur** from 05/03/2018 to 09/03/2018

Academic Projects

1. **M.Tech. Thesis:** Analysis of Domestic Solar Water Heater (SWH) For Modeling a Residential House Using The TRNSYS Simulation Software in Indian Environment in Dr. B. C. Roy Engineering College, Durgapur
2. **B.Tech. project:** In Jacob's Ladder (High Voltage Travelling Arc Generator Using Spark Gap and The Application Of E.S.P) in Dr. B. C. Roy Engineering College, Durgapur
3. **Diploma Project-1:** Light Activated Solid State Switch Using LDR, DIAC, TRIAC to Switching Automatically At Dark Time in Kanyapur Polytechnic, Asansol
4. **Diploma Project-2:** Fabrication Of Battery Operated Inverter Cum Emergency Light Circuit in Kanyapur Polytechnic, Asansol

List of Certification (Workshop, FDP, STC & STTP's)

1. Certificate of actively Participated In five Days Short Term training Course (STC) On **Mechatronics And Robotics (TEQIP-III Sponsored)** Organized By Department Of Electrical Engineering, **Punjab Engineering College (PEC), Deemed To Be University**, Sector-12, Chandigarh from 16th to 20th July 2018
2. Certificate of actively Participated In five Days Short Term training Course (TEQIP-III Sponsored) On **Advanced Control Applied To Various Fields Of Engineering** Organized By Department Of Electrical Engineering, **National Institute Of Technology(NIT) Durgapur** August 28th to September 1st 2018
3. Certificate of actively Participated In five Days Short Term training Course (STC) On **Power Electronics And Control Aspects Of Microgrid Systems** Organized By Centre Of Excellence On Renewable Energy Systems , **National Institute Of Technology (NIT), Rourkela**, Department Of Electrical Engineering, Rourkela-769008, Orissa (Odisha) December 26th to December 30th 2018
4. Certificate of actively Participated In 5-Days Short Term Training Course (STC) On **Control and Automation in Industrial, Vehicular and Aerospace Applications (CAIVAA-2019)** Organized By Department Of Electrical Engineering, National Institute of Technology (NIT) Durgapur July 30th to August 3rd 2019
5. Certificate of Actively Participated In one day National level Webinar on **Solutions to the Challenges in Electrical Vehicles** organized by Department of Electrical & Electronics Engineering of **Mahatma Gandhi Institute of Technology, Hyderabad, Telangana** in collaborations with Entuple Technologies 14th August 2020
6. **8.)** Certificate of Actively Participated In the **TEQIP-III Sponsored** One Week online Faculty Development Program (FDP) on **Soft Computing Techniques (SCT-2020)** organized by Electrical Engineering Department of **National Institute of Technology-Srinagar, J&K (NIT-Srinagar)** 25th to 30th July 2020.

7. Certificate of Actively Participated in One day **IEEE International Online webinar** on How to write an Effective Research Paper organized by IEEE student Branch & R & D cell of **Dr.B.C.Roy Engineering College, Durgapur** in association with **IEEE Kolkata section** 16th April 2021
8. Certificate of actively Participated in the **one week online short term Course (STC) on Applications in Power Electronics Engineering** Organized By Department of Electrical & Electronics & Communication Engineering of **National institute of Technical Teachers' Training & Research (NITTTR), Chennai** 13th September to 17th September 2021
9. Certificate of actively Participated in the one week online **ICT Mode Short term training programme (STTP) on Power Electronics** Organized By Department of Electrical of **National institute of Technical Teachers' Training & Research (NITTTR), Kolkata** 20th September to 24th September 2021
10. Certificate of actively Participated in the three days online workshop on **Nuclear Energy and Measurement** Organized By Department Of Instrumentation & Control Engineering of **National Institute of Technology Tiruchirappalli** in association with **SPARC (Scheme for promotion of Academic & Research Collaboration) Tamil Nadu-620015** on 23rd to 25th September 2021
11. Certificate of actively Participated in the one week online short term Course (STC) on **Solar Wind and Bio Energy Applications** Organized By Department of Mechanical Engineering of **National institute of Technical Teachers' Training & Research (NITTTR), Chennai** 27th September to 1st October 2021
12. Certificate of Actively Participated in Two days virtual **IEEE PES (Power & Energy Sector) Global Workshops on "Electric Vehicle -Grid Integration Opportunities, Challenges & Remedial Measures"** organized by **PES India Chapters Council (PICC)** Co-host **IEEE India Council & PES-IAS Chapter, Pune** 22nd July & 23rd July 2021
13. Certificate of Actively Participated in One day Virtual Webinar on **Drone Technology** organized by Department of Electrical Engineering (EE), **RIT-IEEE Student Branch, RIT-CTL & IEEE Bombay Section** of K.E. Society's **Rajarambapu Institute of Technology, Rajaramnagar** 30th August 2021
14. Certificate of Actively Participated in two days Online Workshop On **High Performance Computing (HPC) and AI For Computational Biology** Organized by **Indian Institute of Technology Kharagpur** and **Tezpur University** under the aegis of National Supercomputing Mission 29th & 30th October 2021
15. Certificate of Actively Participated In the five (5) days Online master Class on **Electric Vehicle (EV) Design using MATLAB software** organized by Pantech Prolabs India pvt. Limited. 5th July to 9th July 2021
16. Certificate of Actively Participated in AICTE approved ATAL sponsored 5-day Online FDP on **Artificial Intelligence & Machine Learning Applications in Electrical Engineering** organized by Department of EEE, **CVR College of Engineering, Telangana – 501510** 9th August to 13th August 2021
17. Certificate of Actively Participated in AICTE approved ATAL sponsored 5-day Online FDP on **Challenges and Opportunities in Integration of Electric Vehicles with Smart Electric Grids** organized by Department of Electrical and Electronics Engineering, **National Institute of Technology (NIT), Goa** 16th to 20th August 2021

List of Publications

Conferences

1. Certificate of Actively Participated and Present a Conference Paper entitled "**Mathematical modelling and analysis of HVAC system of modern Buildings using renewables for optimization of Energy consumptions in Indian Scenario**" in Virtual /Online National Conference on Emerging Trends in Engineering Science & Technology (NCETET-2022) Organized by Technique Polytechnic Institute Panchrokh, Sugandhya, Hooghly ISBN:978-93-92818-00-4, Editon-1 on Transactions on Engineering Science and Technology, PP: 93-98
2. Certificate of Actively Participated and Present a Conference Paper entitled "**Comparative Analysis & Mathematical**

modelling of HVAC system of modern Buildings using TRNSYS for optimization of Energy consumptions in Indian Scenario in SERB Sponsored 1st International Conference On “Emerging Trends In Electric Vehicles And Smart Technologies (ICETEVST-22) in Association with SRMTRPEC IEEE Student Branch, Organized by Department of Electrical and Electronics Engineering, SRM TRP Engineering College, Tiruchirappalli ISBN: 978-93-94899-37-7,

3. Certificate of Actively Participated and Present a Conference Paper entitled “**Comparative analysis & mathematical designing of HVAC System of modern buildings using TRNSYS for optimization of energy consumptions in Indian Scenario**” in the 3rd International Conference on Frontiers of Engineering Inventions (ICFEI-2022) Post Covid-19 Priorities 2022 by Department of Mechanical Engineering, Invertis University, Bareilly (U.P)

Journals

1. Sushovan Roy, Dr. Sandip Chanda, Dr. Papun Biswas & Dr. Abhinandan De “**Energy Efficient Design of Solar water heater for Improvement of Energy Efficiency of Smart Buildings Using TRNSYS In Indian Region**” in International Journal of Engineering Research and Applications (IJERA) <https://doi.org/10.9790/9622-1203022026>, ISSN: 2248-9622, Vol. 12, Issue 3, (Series-II) March 2022, pp. 20-26

Computer Proficiency

knowledge of **C- Programming, DBMS, MS Office** (Mainly MS Word, MS Power Point and MS Excel)

Professional Membership

1. Active Member of **IFAC**
2. Active Member of **Research Gate**
3. Life Membership of Institute for Engineering Research and Publications (IFERP)
4. Active Member of International Association of Academic and Corporate (IAAC)
5. Active Member of International Association of Engineers (IAENG)

Technical Quotient / Softwares Known

1. Knowledge of **MATLAB, MULTISIM, PSIM, MI POWER** software, Knowledge of **CAD** (computer aided electrical Drawing) software, **PLC software**
2. knowledge of **TRNSYS, ENERGY PLUS** Building simulation Software
3. Knowledge of **LaTeX software** for Journal article, Conferences & PPT Presentations (**LaTeX Beamer**) writing
4. Knowledge of **Virtual Lab**, an initiative taken by **MoE, Govt. of India** Coordinated by **Indian Institute of Technology(IIT), Kharagpur**

Area of Specialization: Power System Engineering

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U.G/P.G Course Topics / Papers taught

Basic Circuit Theory & network, Power Systems-I (both theory & Lab), Power Systems-II(both theory & Lab), Illumination Engineering (Old Syllabus), Utilization of Electric Power & Electric Railway Traction, Power quality & FACTS & Power Generation Economics

Power Quality management, FACTS Controllers