

MOHIT MURARKA

E-mail: mohitmurarkacsio@gmail.com

Address: 213/2, Sec 44A, CDG-160047

☎: (+91) 8638522804



PROFESSIONAL EXPERIENCE

- Faculty (on contract) under Technical Education Quality Improvement Project (TEQIP III) implemented by the Ministry of HRD, Government of India at NIT Meghalaya for GATE 2019. (Nov 2018-Jan 2019)
 - Subjects Taught: *Electric Circuits, Signals & Systems, Control Systems, Measurement, Power Electronics, Quantitative Aptitude.*
- Currently working as Project Assistant under the Director, CSIO in a joint project under CSIR-CSIO and CSIR-IHBT.

ACADEMIC DETAILS

- M Tech (Energy Technology) - TEZPUR UNIVERSITY ~ Secured 89.70% (Gold Medalist) (2018)**
- Fourth semester internship at **National Institute of Solar Energy (NISE)**, Gurugram
 - Process of designing and commissioning of a solar thermal power plant
 - Complete operation and management, SCADA control and all the related administrative activities in the plant
 - Performance Analysis, Simulation and Optimization of the plant
 - Successfully completed third semester at **Indian Institute of Technology, Guwahati (IITG)**
 - Course work on 'Physical Modelling of Multiphase Processes in Mineral and Chemical Processing' held in October, 2017
 - Energy Analysis of Multiphase Flow in Flat Plate Solar Collectors (using MATLAB)
 - 1st and 2nd semester course work at **Tezpur University**
 - Energy Management and Auditing, Energy Economics and Planning, Petroleum, Fuel and Combustion, Solar, Wind, Hydro, Biomass, Energy Efficient Building, Basic French etc.
- B.E. (Electrical Engineering) – ASSAM ENGINEERING COLLEGE ~ Secured 79.32% (Ranked 8th) (2015)**
- XII (HSSLC) - GYAN VIGYAN ACADEMY, ASSAM ~ Secured 80.02% (2011)**
- X (HSLC) - LITTLE STAR HIGH SCHOOL, ASSAM ~ Secured 79.80% (2009)**

CONFERENCE, TRAININGS AND PROJECT UNDERTAKEN

INTERNATIONAL CONFERENCE:

- 2nd ISEES International Conference on **Sustainable Energy and Environmental Challenges (Dec 2017-Jan 2018)**
 - Attended the conference representing 'Advance Energy, Materials and Simulation Laboratory, IIT Guwahati'
 - Presented paper on "Energy Analysis of Multiphase flow in Flat Plate Solar Collectors"

INTERNSHIP AND TRAININGS:

- **NISE, Gurugram and MNRE, Government of India (Feb-April, 2018)**
 - Designing and Performance Evaluation of Solar Thermal Systems
 - Achievement of Renewable Energy and its potential, policy and UNIDO projects in India
- **IOCL, Guwahati Refinery (Jun- Jul, 2014)**
 - Studied the working of Steam Turbo Generator (STG)
 - Studied the working of cooling tower and various components viz. turbine, condenser
- **OIL, Pipeline Headquarters, Guwahati (Dec 2013-Jan 2014)**
 - Studied the procedure of transportation of oil
- **Assam Electricity Grid Corporation Limited, Sarusajai, Guwahati (July, 2013)**
 - Studied the Operation of Sub-station
 - Studied different equipments including metering and control-panel
- **Power Maker, Guwahati (June, 2013)**
 - Studied the concepts of Power Transformer & Distribution Transformer
 - Analysed Open Circuit & Short Circuit Tests and Construction of Transformers

PROJECT:

- Project at "**Electricity Generation from Solar Thermal – Performance Analysis, Simulation and Optimization of National Solar Thermal Power Facility**".
 - Generation of electricity using various Solar Thermal Technologies
 - Performance Analysis of different technologies based on optical efficiency, operating temperature and location
 - Optimization of various operating parameters of the plant

- Restructuring of the existing Solar Thermal Power Plant
- Project on “**Performance Improvement Of Primary And Secondary Distribution System**”
 - Reduce losses in a distribution system by optimum placement of the transformer, capacitor and choosing suitable HV/LV ratio
 - Cost Data Analysis for High Voltage and Low Voltage lines
 - Characteristics and Optimal Placement of DISTRIBUTION GENERATOR

SCHOLASTIC ACHIEVEMENTS

- Secured **first class first position (Gold Medallist)** in the entire university during the Degree of Master of Technology in Energy Technology
- Receiving **GATE Merit scholarship** from All India Council of Technical Education
- Secured **90.91 percentile** marks in GATE-2016
- Secured **first class eight position with honours** in the entire university during the Degree of Bachelor of Engineering examination
- Received **Engineering Merit Scholarship** from Director of Technical Education, Assam, for the year July, 2011 – June, 2015
- **STATE RANK - 7** in Assam Combined Entrance Examination, 2011
- Received **Certificate of Excellence** from Oil India Limited for performance in Higher Secondary School Leaving Certificate Examination
- Received **Certificate of Achievement** from Oil India Limited for performance in High School Leaving Certificate Examination
- Received **Anundoram Boruah Award** from the Government of Assam by Honourable Chief Minister

POSITIONS OF RESPONSIBILITY

- Leading role in organizing the **XIV Convocation**, Tezpur University
- **Event Organizer** of the entire event **CIRCUITONIX** in **Udbhavanam 2013**, the Annual Technical Fest of Assam Engineering College
- **Event Organizer** of the entire event **PYROADIES** in **Pyrokinesis 2014**, the Annual Cultural Festival of Assam Engineering College
- Have been the **Creative Head** in **Indian Society for Technical Education**, Assam Engineering College
- **Technical Lead** of the Robotics Club in the College

EXTRA-CURRICULAR AND ACHIEVEMENTS

- Actively participated in the ‘**Industry Academia Interaction on Energy Conservation and Renewable Energy intervention opportunity for industrial growth in NE India**’ organized by the Department of Energy, Tezpur University
- Cadet of **NCC (National Cadet Corps)** and have successfully passed **Certificate B** Examination.
- Successfully completed **ATC-1** held at Assam Engineering College, Guwahati in January 2013
- Actively participated in the ‘**NEQIP Finishing School Programme**’ organized by Entrepreneurship Development Cell, AEC
- Have attended **IIT Guwahati** Entrepreneurship Summit 2015
- Participated in the **IEEE** workshop on **Graphics and Presentation** organized by IIT Guwahati under IEEE Kolkata

PERSONAL DETAILS

- **Date of Birth** : 25th of September 1992
- **Sex** : Male
- **Hobbies** : Travelling
- **Languages Known** : English, Basic French, Hindi, Marwari, Assamese.

Declaration:

I do hereby declare that the above given statements are true and correct to the best of my knowledge.