ASIF ALI KHAN

Engineer

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CAREER OBJECTIVE

To build a career in the energy sector and to design, develop, or evaluate energy-related projects or programs to reduce energy costs or improve energy efficiency during the operation and to make Energy:

- Smart
- Secure
- Sustainable
- Affordable

CERTIFICATIONS

- Autodesk Certified Professional: AutoCAD for Design and Drafting. **(June 2021)**
- Power Cable Selection for PV Systems: GSES Australia**.** **(June 2021)**
- Green Investments: Renewable Energy, Asian Development Bank Institute (ADBI). **(Feb 2021)**
- Certificate of Energy Literacy, Energy Swaraj Foundation. **(Jun 2020)**
- Energy Economics, Environment and Policy, Asian Development Bank Institute (ADBI) **(May 2020)**
- Professional advantage course on solar photovoltaic system design, installation & maintenance, GSES India. **(Jun 2019)**

EDUCATION

- **Central University of Jharkhand, Ranchi, India (2015 - 2020)**

  Master's Degree (B.Tech + M.Tech Integrated), **ENERGY ENGINEERING**
  CGPA: **8.94/10**

- **CBSE Board, Lions Public School, Sindri, dhanbad (2013- 2015)**

  XII (Senior Secondary), Science (PCM)
  Percentage: **84.80%**

- **JAC Board, High School, Baliapur, Dhanbad**

  X (Secondary) Year of Completion: **2013**
  Percentage: **86.00%**

EXPERIENCE

- **Global Sustainable Energy Solutions (GSES) India, New Delhi, India**

  Designation: Engineer (August 2020 – Present)
  Roles & Responsibilities

  - Project Engineering **(Australia Projects)** – Working with Australian team members, Preliminary and detailed design pack preparation on AutoCAD & 3D modelling software.
  - Due diligence, inspection, Audit, supervision of renewable energy projects.
  - Data Handling - data research, field surveys, analysis of data
  - Project Reporting – Developing reports, presentations, DPRs
  - Project Management – Developing frameworks, schedules
  - Research & Development – Design/re-design, fabrication, testing, technology enhancement & data analysis
  - Client Management – Interfacing with client, client satisfaction
  - Overview single line diagrams, Earthing diagrams, understand and oversee the installation of renewable energy systems.
  - Timely production of project reports to measure technical and financial deliverables

PROJECTS

- **Design & Performance Analysis of Grid Connected Solar Photovoltaic Systems Using 3D Modelling & Simulation softwares (June 2019 – May 2020)**

Designed 80.24 kWp System for High Commission of Ghana, New Delhi using different 3D modelling and simulation softwares like SketchUp, Helioscope, The Solar Labs & AutoCAD. Performance analysis of the output produced from different simulation softwares. Electricity consumption assessment etc.

- **Carbon Capture Utilization & Storage, CCUS (Jan 2019 – May 2019)**

Study of different methods of carbon capture, its separation, safe utilization & transport and its storage. Safe underground storage study avoiding the risk of its leakage and study of CO_2-EOR (Enhanced Oil Recovery) process.

- **Bio- Ethanol as Fuel in I.C Engines (Aug 2018 – Dec 2018)**

Production and synthesis of Ethanol from Bio-energy Resources. Study of its chemical and physical properties. Socio-economic impacts of Bioethanol especially for local actors and new market opportunities for agricultural products and thus new income options for farmers.

- **Global Sustainable Energy Solutions (GSES) India, New Delhi, India**

Designation: Project Intern (June 2019 – July 2020)

Activities Performed & Responsibilities

- Inspection of SPV plant including thermography of the solar PV (Modules, Inverter, Connections, Junction Points)
- IV Curve Testing (both for string and individual PV Modules)
- Electroluminescence Imaging Test
- Soiling Loss Analysis.
- Project Reporting – Developing reports, presentations
- 3D Model design SketchUp, SPV Capacity Assessment using different modelling & simulation softwares.
- Site Layout preparation in AutoCAD
- Data Handling - data research, field surveys, analysis of data
- Travel & Site Visit

- **Bureau of Energy Efficiency, Ministry of Power, Govt. of India, New Delhi, India**

Designation: Intern (May 2018 – July 2018)

Worked under the International Cooperation **(IC)** division of **BEE.** Got an opportunity to understand scenarios and policies of different countries on the topics:

- Net Zero Energy Buildings: **(**Denmark & France**)**
- Digitalization in Energy Efficiency: **(**European Union & Japan**)**
- Super-Efficient Equipment and Appliance Deployment: **(**USA & Australia**)**

- **DVC Chandrapura Thermal Power Station (CTPS), Bokaro, India**

Designation: Vocational Trainee (May 2017 – June 2017)

- Had a great experience in the newly constructed power generation, 2 units of **250 MW** each **(**DVC CTPS, Bokaro**)**. Learnt so many things of both mechanical and electrical aspects of functioning of Thermal power plant, their equipment & their working. It was a great experience.

- **Skyfi Labs, Roboversity, Ranchi, India**

Nov 2016 – Nov 2016

It was a project-based training program on **"Solar and Smart Energy Systems"** where learnt to make solar mobile charger and a smart traffic signal. Had a wonderful experience.

KEY PROJECTS HIGHLIGHTS

PROJECT DESCRIPTION	STATUS
United Arab Emirates (UAE) Project: Solar PV potential capacity assessment on **Helioscope** simulation software for the entire industrial area of **Al Hamad, Ras al Khaima (RAK), UAE.** Total aggregated capacity of **90.3 MW** for the entire industrial area. Also Design & simulation on **The Solar Lab** simulation software for few individual buildings and villa located in **RAK, UAE.**	**Complete**
Aldinga Project (Australia): Design of **1 MW** of ground mount solar project in Aldinga**, Australia.** Project involved array inverter matching, layout and single line diagram preparation in **AutoCAD.**	**Complete**
ISA-Ghana Embassy: Site survey, capacity assessment, design & simulation on Helioscope, feasibility report & 3D model preparation on **SketchUp** for **High Commission of Ghana, New Delhi, India.** Project funded by **International Solar Alliance (ISA).**	**Complete**
Somalia project (Africa): Design of **1 MW** of ground mount solar PV-DG hybrid project in **Somalia, Africa.** Project involved array inverter matching, layout and single line diagram preparation in **AutoCAD** and 3D model preparation of the site in **SketchUp.**	**Complete**
Tonsley Tafe Project (Australia): Design of **2.5 MW** of rooftop solar project in Tonsley Tafe**, Australia.** Project involved site model, site layout, AC, DC single line diagram preparation in **AutoCAD** (Detailed design pack for the project).	**Complete**
World Bank-Delhi Dataroom: Site survey, capacity assessment, feasibility assessment & 3D model preparation on **The Solar Lab** for several residential buildings & govt. offices located all over **New Delhi, India.** Project funded by **World Bank.**	**Complete**
SSB Patna Project: **3D modelling** design and simulation & capacity assessment on The Solar Lab software and also detailed project report (DPR) preparation for 7 different SSB camps in **Bihar, India.**	**Complete**
IREDA Project: LIE's Due diligence report preparation for IREDA funded **10 MW** solar PV project at **Akkalkot, Solapur district of Maharashtra, India.** Project report involved review & verification of all design documents, contract documents. Land purchase documents, PPA agreements, NOC certificates etc.	**Complete**
Assam Project: Solar PV potential capacity assessment and **3D modelling** design & simulation in **The Solar Lab** 3D modelling & simulation software for the entire government offices located in **Majuli district of Assam,India.**	**Complete**
World Bank-Assam: Solar PV 3D model preparation on **SketchUp** for several PFC centers to be established at govt. offices of Assam. Project funded by **world bank.**	**Complete**

SKILLS & SOFTWARES

AUTOCAD

HELIOSCOPE

MS- OFFICE

SKETCHUP 3D

THE SOLAR LAB

MS- EXCEL

AREAS OF INTEREST

To contribute toward growth of energy sector, 3D model design preparation, simulation, AutoCAD layout preparation and to acquire knowledge in the field of renewable energy industry with economic and environmental engineering practices and to apply my skills to increase efficiency and to further find the most efficient and sustainable ways.

HOBBIES

- Socializing with friends and family.
- Watching news and documentaries.
- Reading.
- poetry.
- Listening Music

PERSONAL

- **NAME-** Asif Ali Khan
- **FATHER'S NAME-** Naushad Khan
- **DOB-** 14 August, 1997
- **PASSPORT NO. – S7484399 (**Valid till September, 2028**)**
- **NATIONALITY-** Indian
- **LANGUAGES-** English, Hindi.

SIGNATURE