ANUJ SHUKLA
(M.SC., EIT)

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SUMMARY

- Experienced in Clean Energy Product Development and Project execution
- Over 3 years of Renewables Industry Experience; 1+ year of Fuel Systems and HVAC Research Experience
- Multi-lingual in English, German, Hindi and Gujarati
- Excellent Technical Writing and Analytical Representation Skills
- Extremely Efficient in Delivering Turn-key and Time Sensitive Projects
- Proficient with Software Tools: Homer, Aspen Hysys, AutoCAD, MS Visio, MS Excel, LabView
- Expertise in Grid-Tied and Off-Grid Energy Systems

PROFESSIONAL EXPERIENCE

Systems Engineer- Clear Blue Technologies Inc. (Toronto, CA) **Oct. 2018 – July 2019**

- Incorporated Clear Blue's off-grid solar charge controller into designs for street lighting, telecommunication and other grid-tied and off-the-grid applications
- Met with customers to understand the application and provide the most energy efficient and cost-effective solution with the use of Homer
- Supported the implementation phase of the solution by ensuring the customer has a strong understanding of the solution and provided corresponding detailed documentation
- Developed standardized systems for Street Lighting, Telecommunication and Grid Powered Applications and provided an automated pricing tool in MS Excel for the Sales Team
- Analysed commissioned systems on the cloud-based Energy Management tool "Illumience" developed by the company and helped in providing customer support and troubleshooting
- Co-ordinated with the design team to design easy-to-install pole mounted components for street lights and created installation manuals for customers
- Acted as a liaison between the procurement, production, logistics and engineering teams to improve the after-sales processes and define requirements for new product functionality

Consulting Engineer- Projects, Greengain Energy Solutions Pvt. Ltd. (India) **Sep. 2017 – May 2018**

- Carried out pre-engineering work for almost 5MW of solar and various energy storage projects
- Prepared RFQ's & technical proposals, negotiated with clients and created/ delivered technical presentations for different products and services offered
- Technical assessment of Tenders in co-ordination with the finance team to prepare the budget and pitch to investors for large scale projects
- Carried out detailed calculations of acting loads, configuration and design preparation of PV Plants for various solar energy systems for building rooftops, BIPV (Building Integrated Photovoltaics) and other installation locations
- Designed renewable systems to improve overall energy efficiency and inculcate clean energy concepts in the industry

Associate Consultant- Gensol Engineering Pvt. Ltd. (India) **Aug. 2016 – Aug. 2017**

- Conducted a full market research on available and upcoming new and renewable energy techniques and systems
- Carried groundwork and understood the technology roadmap for India on various battery chemistries like Lithium Ion, Lead Acid and other emerging types along with various sub-chemistries to measure the scope of development
- Executed a detailed market research regarding charging infrastructure for Electric Vehicles in India
- Designed energy storage systems of various project sizes ranging from kilowatts to megawatts and proposed them for installation and commissioning.
- Prepared the design schematics for battery packs meant for stationary energy storage with the knowledge of EMS/ BMS along with the budget preparation of battery pack assembly unit (1 MWh/year) in India
- Worked on project initiation for the factory setup of battery pack assembly
- Co-ordinated with technicians and engineers working with energy storage systems and meeting vendors and clients nationally as well as internationally (China) for business engagements

Research Assistant- Catalytic Process Division, Fraunhofer Institute (Germany) **Mar. 2014 – May 2015**

- Executed the development and modification of a test-rig for a fuel evaporator characterization to reduce harmful gas emissions from internal combustion engines and improve their overall efficiency
- Executed PLC design for temperature control in the test bed using LabView
- Carried out physical and chemical analysis of the catalytic evaporator of different output ranges
- Understood the regulatory requirements for the customer based on the location and projects along with the HAZOP/ Safety compliance assessment and developed PFD's for different processes in the system
- Evaluated results (temperature and gas composition) and supporting the further optimization of the reactions in the fuel reactor; study of hydrogen generation during reactions
- Provided technical support with the coupling of the fuel evaporation unit with an internal combustion engine with real-time tests with further assessments on exhaust optimization. Understood various applications of HVAC and how current systems can be upgraded to improve energy efficiency
- Worked with an international team of scientists and researchers and researching on topics for optimized fuel combustion like HCCI and understood hydrogen fuel cell systems

CERTIFICATION

Autodesk AUTOCAD 2010 – Khodiyar CAD Training Centre, Ahmedabad Cert. No. **1CQDTYZ941**

EDUCATION

University of Applied Sciences at Bremerhaven, Bremerhaven, Germany **2015**
Master of Science (M.Sc.) in Energy Technology & Process Engineering
Courses: Renewable Energy Generation, Smart-Grids, Chemical Energy Storage Systems, Thermodynamic Processes, Process Simulation and Control, Project Management

Indus Institute of Technology, Gujarat University, Ahmedabad, Gujarat, India **2011**
Bachelor of Mechanical Engineering (B.Eng.) with majors in Automobiles

References available upon request