PHANEENDRA BORRA

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PROFESSIONAL SUMMARY

As an Electrical Engineer with a Master's degree in Power Systems, I specialize in the **modeling, simulation, and analysis of transmission systems**. Proficient in **Python and with foundational knowledge of SQL and ASPEN software**, I bring a strong blend of technical expertise and analytical thinking to solve complex engineering challenges. With proven project management, problem-solving, and collaboration skills, I am dedicated to driving innovation in power systems. I actively pursue professional development and stay abreast of emerging industry trends to deliver forward-thinking, effective solutions.

EDUCATION

M.Sc in Information Science
Trine University, Angola IN **Jan 2022 – Dec 2023**

- Completed advanced coursework in **Data Analysis** and **Systems Engineering** as part of a Master's in IT, focusing on optimizing electrical system performance.
- Designed and developed a **smart energy monitoring system** for a capstone project, **integrating IoT sensors** with real-time data analytics for enhanced energy tracking.
- Collaborated with cross-functional teams to design and implement **smart grid solutions**, effectively bridging the gap between IT and electrical engineering domains.
- Utilized SQL-based databases such as **MySQL** to manage and analyse structured data sets, including load profiles and historical system performance.

M.Sc in Electrical Engineering
Warsaw University of Technology, Warsaw, Poland **Oct 2016 – Jun 2018**

- As an M.Sc. Electrical Engineering acquired comprehensive qualifications and knowledge in activity **analysis, design methods, construction, design, and operation of electrical devices, power, and electrical systems**.
- Prepared to solve complex problems in the field of **electrotechnics** with the use of modern **computer techniques**, **IT tools**.

Bachelor's in Electrical and Electronics Engineering and Management
Vignan University of Science and Technology, Guntur, India **Jan 2012 – Jun 2016**

- **Designed, installed, and maintained** electrical systems within power networks, prioritizing performance, safety, and compliance with industry standards.
- Performed routine **inspections and diagnostics** on electrical circuits, motors, and control systems to identify and resolve issues proactively.
- Conducted comprehensive analyses of **electrical systems**, implementing improvements to enhance operational efficiency and reliability.
- Leveraged advanced tools such as **MATLAB and AutoCAD** to model, simulate, and optimize electrical circuit designs.

- Led electrical projects from initial concept through execution, consistently meeting deadlines and budgetary goals.
- Collaborated with multidisciplinary teams to troubleshoot and enhance system performance, reducing downtime and increasing overall reliability.

WORK EXPERIENCE

OPERATIONS ASSOCIATE

STATE STREET, Gdansk Poland **Nov 2018 – Dec 2021**

- Automation and testing Involve in developing and maintaining the infrastructure**.**
- Control systems and their interaction with software**.**

PROJECTS AND CERTIFICATIONS

Concept project of a hybrid power supply system for different locations with RES (Solar, wind)

- Individual project on power supply for two different locations using **hybrid power sources like solar and wind energy.**
- Perform the site analysis by gathering the location data and load profile analysis.
- Design the system by using **solar array sizing**, **wind turbine selection**, and battery storage.
- Selecting the appropriate **solar panels, wind turbines, inverters, and charge controllers.**
- Comprehensive documentation of the selected **components, system layout, and power calculations.**
- Breakdown of initial investment, operational costs, and potential savings.

The current state of photovoltaic technology in the area of cables, wires, and connectors

- Assessing the location and technical equipment before establishing an actual project on the location to generate power by using photovoltaic technology.

Workshop **on Solar and smart Energy systems at National Level Technical Symposium.**

Workshop **on Smart Energy Systems organized by Roboversity.**

Paper presentation **on smart energy at the national level techno-management conducted by KL University.**

INDUSTRIAL TRAINING

Dr Narla Tata Rao Thermal Power Station **Nov 2015 – Dec 2015**

- **Performed maintenance of outdoor switchyard equipment, including transformers and Buchholz relays, ensuring system reliability and protection.**
- **Assisted in Low Tension (LT) and High Tension (HT) line maintenance, gaining hands-on experience in transmission and distribution systems.**
- **Worked with protective relays, learning fault detection mechanisms and protection coordination in real-time operations.**
- **Supported maintenance of AC and DC machines, including lubrication and servicing of motors up to 110 kW.**
- **Participated in live plant troubleshooting, resolving operational issues under supervision to maintain system uptime.**
- **Gained exposure to SCADA systems, observing real-time monitoring and control of the electrical network.**

SKILLS

- Power Generation
- Transmission systems
- Networking
- Power control system
- ASPEN software
- Excel & word
- Python Programming.
- SQL server
- Time management
- Leadership
- Adaptability
- Teamwork
- Communication skills

I will be relocated, and I am sure I can contribute to your organization's growth and profit. I appreciate the opportunity to show you how I can help your company meet its goals.