Edvin Mosses Essoudassou
MSc Renewable Energy

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Edvin Mosses Essoudassou | LinkedIn

Professional Summary:

Dynamic **Electrical and Renewable Energy Engineer** with an MSc in Renewable Energy Engineering from the University of Surrey and LEED Green Associate certification. Over 3+ years of hands-on experience in electrical engineering, specializing in renewable energy systems, energy efficiency, and electrical system design. Adept at project management, technical troubleshooting, and regulatory compliance, delivering optimized energy solutions that drive cost savings and sustainability.

At **Fire Tech Fire Fighting LLC**, successfully enhanced site planning, reducing project execution time by 15%, and led procurement strategies that cut material costs by 10%. Secured a 95% first-submission approval rate for electrical, plumbing, and HVAC system layouts while maintaining 98% regulatory compliance. Passionate about advancing sustainable energy solutions, I thrive in roles that integrate technical expertise with strategic decision-making to optimize energy systems. With strong analytical skills, cross-functional collaboration experience, and proficiency in AutoCAD Electrical, Revit MEP, MATLAB, and ERP systems, I am eager to contribute to innovative projects that accelerate the transition to renewable energy technologies.

Professional Experience:

Electrical Engineer | FIRE TECH FIRE FIGHTING LLC | Group of City Experts Constructions LLC, Dubai, UAE February 2021 - August 2023

- Optimized site planning, reducing project execution time by 15% and improving overall workflow efficiency.
- Streamlined project proposal development, reducing approval turnaround time to three weeks through structured templates and standardized protocols.
- Negotiated with suppliers to procure approved materials, achieving a 10% reduction in costs through strategic sourcing.
- Secured a 95% first-submission approval rate for electrical, plumbing, and HVAC shop drawings and layouts.
- Ensured 98% regulatory compliance by adhering to DEWA, DM, and EGBC standards, minimizing project delays.
- Implemented energy-efficient solutions in project designs, supporting the company's sustainability goals.
- Facilitated cross-departmental collaboration between electrical, mechanical, and civil engineering teams to optimize project integration.
- Conducted thorough site inspections and audits to uphold quality and safety standards.
- Served as a liaison between project teams and external stakeholders, ensuring seamless communication and timely issue resolution.
- Led training sessions for junior engineers and technical staff, fostering best practices in electrical design and project management.

Graduate Intern | H & R JOHNSON PVT. LTD | Karaikal, India June 2019 - December 2019

- Monitored and optimized daily electrical work activities, leading to a 15% increase in equipment effectiveness.
- Reduced system downtime by 20% by employing advanced troubleshooting techniques and promoting proactive maintenance.
- Ensured timely project delivery within budget, achieving a 98% compliance rate with industry standards.
- Led a quality assurance initiative, increasing project efficiency by 25%.
- Developed sustainable energy-efficient electrical systems, reinforcing the company's commitment to innovation and environmental stewardship.
- Facilitated collaboration between interns and senior engineers, enhancing knowledge transfer and practical learning experiences.
- Participated in site inspections and safety assessments, providing valuable feedback on electrical installations and compliance.
- Prepared technical documentation and reports, gaining hands-on experience with industry-standard software and tools.
- Engaged in client and supplier meetings, building foundational skills in stakeholder communication and procurement processes.
- Recognized for exceptional performance, demonstrating initiative and a strong commitment to professional development.

Education:

MSc in Renewable Energy Engineering | University of Surrey (2023-2024)-UK | Award:- Merit

- **Specialisations:** Process Modelling and Simulation, Optimisation and Decision Making, Solar Energy Technology, Wind Energy Technology, Biomass Technology, and Supply Chain Management.
- **Academic Project:** *Hydrogen production from seawater: A comparative literature review of the current techniques, challenges, and prospects.*

Bachelor of Technology in Electrical and Electronics Engineering (2015-2019) | Award:- First Class| Pondicherry University, Puducherry, India

- **Key Courses:** Electrical Machines, Digital Signal Processing, Transmission and Distribution, Renewable Energy Systems, Smart Grid Systems, Power System Analysis, Linear Control Systems.
- **Academic Project:** *Intelligent Control of Bidirectional Power Converters in a Hybrid AC/DC Microgrid***.**

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Certifications:

- LEED Green Associate (GBCI#: 0011378222)
- PVSyst Design Software
- BESS Certification (Battery Energy Storage Systems)
- AutoCAD Electrical
- Revit-MEP
- MATLAB
- Solar Design with SMA's Sunny Design Tool
- A Guide to Battery Energy Storage System (BESS) Design
- Sharjah Civil Defence (Card No: 103114383)

Software & Tools:

- AutoCAD Electrical, Revit MEP, MATLAB
- GAMS (General Algebraic Modelling System)
- SAM (System Advisory Model) Software
- MS Office Suite (Word, Excel, PowerPoint)
- Smartsheet, ERP (Project Management)

Key Skills:

Renewable Energy Systems | Electrical System Design | Energy Efficiency | Project Management | Technical Documentation | Budget Management | Safety Compliance | Cross-Functional Collaboration | Site Assessments | Technical Troubleshooting | Team Leadership | Sustainable Solutions | Solar Panel Installation | Solar PV Design| Energy Management | Energy Storage Solutions | Feasibility Studies | Research and Development | Client Relations | Technical Reporting | Presentation Skills | Analytical Skills | Problem-Solving | Time Management | Mentorship | Continuous Improvement | Stakeholder Communication | Environmental Impact Assessment | Cost-Saving Strategies | Technical Support |Auto CAD Electrical.

References:

- Available upon request