**Kipkemoi Charles**

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Personal statement

Enthusiastic electrical engineer with a deep-seated passion for Sustainable transportation systems and renewable energy. Experienced in Power Systems, Industrial Automation, and Control systems. With an elaborate industrial experience in electric mobility technologies, I’ve obtained a solid foundation in electrical engineering principles and field application. Driven by an insatiable thirst for knowledge, I am eagerly seeking to embark on full-time career development in a fast-paced environment. My goal is to immerse myself in the latest advancements in engineering and contribute to the field, fuelling my unquenchable desire to innovate and contribute to curbing adverse emissions as in SDGs while at the same time learning.

Major Skills

* Power Transmission
* Power Systems Analysis
* Agile Methodologies (Scrum)
* Project Management
* Electric Vehicles
* Charging Infrastructure for EVs
* Renewable energy
* Power Electronics

Education Background

Marwadi University, Rajkot, Gujarat, India

(June 2019 – May 2023)

**Grade: First Class Honours Distinction**

Bachelor of Technology Electrical Engineering

Key Skills Gained:

* A keen electrical acumen through performing practicals in the labs, departmental projects, internships, and final-year projects.
* Analytical and conceptual thinking, with a conscientious approach to managing, and prioritizing workloads.
* Ability to handle, analyse and interpret electrical data, perform computer-aided design, install, commission, and maintain electrical equipment.
* Advanced problem-solving and numeracy skills.
* Accomplished communication skills, both written and verbal, developed through numerous essays and presentations.
* Proficiency in all areas of Microsoft Office, including Access, Excel, Word, PowerPoint, and managing Google Workspace.
* Ability to write programs for embedded systems, PLCs i.e. Allen Bradley, and other electronic equipment.

**Notable Modules –** Electric Vehicles, Power Systems Analysis, Industrial Automation, Electric Vehicles Charging Systems, Renewable Energy, Microcontroller and Embedded Systems, Switchgear and protection, Field Theory, Applications and maintenance of electrical equipment, Power Electronics, Sustainability and Climate Change, Electric Machines and Drives, Control Systems, Test & Measurement equipment Usage, Analog & Digital Systems, Signals and Systems

Terige High School, Lessos, Nandi County, Kenya

(2014 – November 2018)

**Grade: B plain**

A-levels**:**

* Mathematics A-
* Physics A-
* English B-

Industrial Experience

Infrastructure Intern, Marwadi Technologies. Rajkot, Gujarat, India.

(June 2022 – December 2022)

Key results:

* **Installation and Maintenance:** I actively participated in the installation of electric vehicle charging stations, ensuring proper set-up and connections to the power supply. Also, performed routine maintenance providing optimal working conditions.
* **Troubleshooting:** I was responsible for diagnosing problems, identifying faults in the hardware or software, and implementing appropriate solutions to restore functionality.
* **Safety Compliance:** Implemented safety protocols and standards during installation and maintenance tasks ensuring safety requirements were observed during installation.
* **Data Monitoring:** Monitored the performance and usage data of the charging stations. This involved tracking usage patterns, and energy consumption, and identifying any anomalies that might require attention.
* **Collaboration:** Worked closely with other members of the infrastructure team, as well as engineers, electricians, and software developers, to coordinate tasks and troubleshoot issues that required multidisciplinary expertise.
* **Site Surveys:** Identified & conducted on-site surveys to assess potential locations for new charging stations; evaluated the electrical infrastructure, considered user accessibility, and made recommendations based on the findings.

Skill India-Electric Vehicle Intern, Elite Techno Groups. Bangalore, Karnataka, India.

(June 2021 – August 2021)

Duties included:

* **Research and Analysis:** Conducted research on the latest developments in electric vehicle technology, battery advancements, charging infrastructure, and sustainable mobility solutions.
* **Data Collection and Interpretation:** Collected data related to electric vehicle performance, energy consumption, charging efficiency, and user behaviour in India.
* **Innovation and Ideation:** Contributed ideas for potential improvements in electric vehicle technology, design, charging solutions, and sustainability initiatives.
* **Successfully** modelled an EV and a Battery Management system on MATLAB software used for analysis for manufacturing improvement.

**Projects**

* “Design of a Dual Active Bridge Converter for EV Charging – Final year Project, May 2023”

Awards and Honours

* Study in India Scholarship – Government of India, June 2019.
* Champion – Intellify Hackathon, Marwadi University, February 2023.
* Athlete of the year (100M race) – Marwadi University, March 2020
* Deputy President- Terige High School – June 2017

Hobbies & Interests

* Playing Soccer
* Wiring

Membership

1. Engineering Board of Kenya, EBK – Graduate Engineer (Registration ongoing) – July 2023
2. Institute for Engineering Research and Publication, IFERP – Student Member – June 2020
3. Institute of Electrical and Electronics Engineers, IEEE - Student Member – Feb 2022

Languages

English – Full Professional Proficiency

Swahili – Native/Bilingual

References

Available upon request.