**SUMMARY**

I am an electrical engineer with four (4) years’ experience working in the public energy sector in Kenya where I have utilized my design, analytical, problem solving, team work and interpersonal skills to design and implement high voltage energy projects. I have also worked in the mini-grid sector where I have used my data science skills to make insights out of energy consumption data of rural communities. I aim to undertake research in energy data analytics that will enable stakeholders increase energy access in developing countries.

**EDUCATION**

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| **Master of Science in** **Electrical and Computer Engineering**  *Carnegie Mellon University Africa campus in Rwanda*  Concentrations: energy systems and data science | 2017-2018 |
| **Bachelor of Science in** **Electrical and Electronic Engineering**  *University of Nairobi*  Concentrations: power systems | 2008-2013 |

**KEY EXPERIENCE**

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| **Electrical Engineer, Transmission System Planning & Design**  *Kenya Electricity Transmission Company Ltd*   * Performed system studies to update the Kenya energy sector Medium Term Plan 2018-2023 * Carried out feasibility studies for upcoming transmission system projects * Performed preliminary design and specifications for new transmission system projects   **Data Analytics Intern**  *PowerGen Renewable Energy.*   * Analyzed metering data from PowerGen microgrids to monitor customers consumption patterns that informed decision making in microgrid system sizing, system expansion and venturing into new markets * Reviewed the existing tariff structures for PowerGen customers and modelled two more reliable tariffs that maximized their revenue while ensuring customer satisfaction * Created python-based functions to help the Analytics team in customer consumption data analysis | | 2019- 2019  2018- 2018 |
| **Graduate Engineer, Projects Implementation**  *Kenya Electricity Transmission Company Ltd*   * Designed two 220 kV transmission line and substation projects * Carried out system studies to evaluate the Kenyan grid’s capability to support a nuclear power plant * Supervised and managed the construction of the 500 kV high voltage DC transmission line and substation between Kenya and Ethiopia * Undertook factory tests for high voltage equipment for the 500 kV transmission line | | 2014 - 2017 |
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**SKILLS & CERTIFICATIONS**

* Python programming
* PSS/E and digSILENT Powerfactory power systems analysis tools
* MATLAB

**REFERENCES**

1. Eng Anthony Musyoka

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KETRACO

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