

# DAVID KAMAU

## SCHOLARSHIP OBJECTIVE

Electrical engineering graduate (First Class, University of Nairobi, GPA 3.85/4.0) with 2 years of power systems engineering experience, seeking to pursue a Master's in Renewable Energy Systems at TU Berlin through the DAAD Study Scholarship. Research focus: grid integration of off-grid solar microgrids for rural electrification in Sub-Saharan Africa. Committed to returning to Kenya to contribute to the national Last Mile Connectivity Programme.

## EDUCATION

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|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>B.Sc. Electrical &amp; Electronic Engineering — First Class Honours</b>                                                                            | 2018 – 2022 |
| University of Nairobi, Kenya   GPA: 3.85/4.0   Ranked 4th of 87 graduates   Dean's List (all 8 semesters)   Best Thesis Award — School of Engineering |             |
| <b>Kenya Certificate of Secondary Education (KCSE)</b>                                                                                                | 2014 – 2017 |
| Alliance High School, Kikuyu   Grade: A Plain (Mean Score 84/84)   7th nationally in Physics — Kenya National Examinations Council 2017               |             |

## WORK EXPERIENCE

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| <b>Junior Power Systems Engineer</b> — Kenya Power and Lighting Company (KPLC), Nairobi                                                                                                                                                                                                                                                                                               | Aug 2022 – Present |
| <ul style="list-style-type: none"><li>Designed and commissioned 4 solar-diesel hybrid microgrid systems serving 1,400 rural households in Turkana County</li><li>Led fault analysis and load flow studies for 33 kV distribution network expansion in Kisumu region</li><li>Reduced grid outage duration by 23% through implementation of automated fault isolation systems</li></ul> |                    |
| <b>Engineering Intern</b> — Strathmore Energy Research Centre, Nairobi                                                                                                                                                                                                                                                                                                                | Jun – Aug 2021     |
| <ul style="list-style-type: none"><li>Conducted energy audit of 6 commercial buildings reducing projected energy costs by 18% through efficiency recommendations</li><li>Contributed to a Kenya Climate Innovation Centre feasibility study on rooftop solar for Nairobi CBD</li></ul>                                                                                                |                    |

## LEADERSHIP & COMMUNITY SERVICE

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| <b>Chapter Founder &amp; President</b> — IEEE University of Nairobi Student Branch                                                                                                     | 2020 – 2022 |
| <ul style="list-style-type: none"><li>Grew membership from 12 to 180 students; organised Kenya's largest student-led power engineering symposium (2022, 340 attendees)</li></ul>       |             |
| <b>STEM Mentor</b> — African Leadership Academy — Schools Outreach Programme                                                                                                           | 2021 – 2022 |
| <ul style="list-style-type: none"><li>Mentored 32 secondary school students from underserved Nairobi schools in physics and mathematics; 19 achieved KCSE Grade A in Physics</li></ul> |             |

## TECHNICAL SKILLS & CERTIFICATIONS

**Engineering Tools:** MATLAB/Simulink | AutoCAD Electrical | ETAP (Power Systems) | HOMER Pro | PVsyst | Python (data analysis)

**Certifications:** IEK Graduate Member (2022) | Solar PV System Design — USIU-A (2023) | German Language B1 — Goethe Institut Nairobi (2023)

**Languages:** English (IELTS 7.0) | Swahili (Native) | Gikuyu (Native) | German (B1)