

Contact

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geowattplustechnologies.com/ (Company)

Top Skills

Python Programming
SQL and Databases
Containers with Docker, Kubernetes, and OpenShift

Certifications

Developing AI Applications with Python and Flask
Application Security for Developers and DevOps Professionals
AWS Machine Learning Foundations
Django Application Development with SQL and Databases
Application Development using Microservices and Serverless

Abner onchana

Electronic Engineer and Software Developer
Nairobi County, Kenya

Summary

As a highly motivated and passionate engineer, I possess a strong background in developing machine learning and data science applications. My journey into the world of technology began at a young age, driven by a fascination with the inner workings of electronic devices. With a bachelor's degree in engineering, I have gained valuable experience as a systems engineer at a renewable energy company, excelling in the development and optimization of hardware and software for embedded devices.

My ability to effectively communicate and collaborate with diverse teams has led to significant improvements in task completion rates. I am dedicated to tackling challenges head-on and committed to delivering reliable solutions within strict timelines. With a strong desire to contribute to an ecosystem that embraces sustainability and innovative technologies, I am poised to make a meaningful impact in the field of machine learning and data science.

Experience

HP
HP LIFE Ambassador
January 2025 - Present (2 months)

Sigma Squared Society
Sigma Fellow
January 2022 - Present (3 years 2 months)

The Sigma Squared Fellowship unites the world's most ambitious entrepreneurs under the age of 26, all driven by a mission to transform broken industries and make a positive impact. By empowering these young founders, the fellowship cultivates innovation and supports the leaders of tomorrow in their efforts to create meaningful change.

GeoWattPlus Technologies
Co-Founder
December 2023 - October 2024 (11 months)

Nairobi County, Kenya

Hardware and Software Integration: Developed and optimized software solutions to ensure seamless integration and functionality between hybrid inverters and lithium batteries for efficient energy management systems.

Real-Time Monitoring and Control: Designed and implemented software that enabled real-time monitoring and control of hybrid inverters, ensuring smooth transitions between different energy sources.

Battery Management: Developed algorithms to manage the charging and discharging cycles of lithium batteries, optimizing their lifespan and performance while ensuring energy availability during peak demand periods.

Embedded Systems Expertise: Gained deep understanding and hands-on experience with embedded systems and real-time data processing, essential for creating efficient and reliable applications.

System Stability and Reliability: Ensured the stability, reliability, and performance of the energy storage and distribution network through precise hardware and software integration.

Custom Software Solutions: Leveraged skills in software development to create tailored applications that meet specific client needs and enhance the performance of renewable energy systems.

Cross-Functional Collaboration: Worked closely with hardware and software teams to bridge the gap between components, ensuring cohesive and functional integration.

Sustainability Focus: Contributed to the development of sustainable energy solutions by optimizing the use of renewable energy sources and enhancing system efficiency.

Solar Commercial Design: Involved in the design and implementation of solar commercial systems, ensuring optimal energy production and integration with existing infrastructure.

Innovative Problem-Solving: Utilized problem-solving skills to tackle challenges in energy management and provide reliable solutions within strict timelines.

Mogeni Tea Factory

Control System Engineer

January 2023 - December 2023 (1 year)

Backup Power Solutions: Led the setup of backup power solutions, including generators and transfer switches, ensuring continuous operations during power outages.

Electrical and Control Motor Circuits: Developed expertise in electrical and control motor circuits for reliable hardware system performance.

Automation Technologies: Gained proficiency in automation and industrial networking technologies, integrating software solutions for automated control systems.

Advanced Sensor Implementation: Implemented advanced sensors for temperature, pressure, and level measurement in the CTC automation process.

Industrial Environments: Effectively worked in fast-paced industrial settings, focusing on safety, efficiency, and high-quality workmanship.

Project Management: Managed and coordinated projects, working with cross-functional teams to meet goals and deadlines.

System Integration: Integrated hardware and software components to create cohesive and efficient systems.

Real-Time Data Processing: Experienced in real-time data processing and control, crucial for responsive software applications.

Problem-Solving: Strong problem-solving and troubleshooting skills for addressing hardware and software issues.

Solar Commercial Design: Designed and implemented solar commercial systems, ensuring optimal energy production and integration.

Scales Technology Solutions Ltd.

Electrical and Instrumentation Engineer

May 2022 - January 2023 (9 months)

Nairobi County, Kenya

At Scales Tech Solutions, I honed my technical expertise in the support, repair, calibration, and computerization of electronic weighing scales and indicators. I played an active role in these processes, and my responsibilities included:

- Providing technical support for all types of electronic weighing scales and indicators
- Repairing and calibrating systems to ensure accuracy and efficiency
- Computerizing weighing systems to improve their functionality and performance
- Designing and presenting products to clients
- Working closely with sales and service personnel to meet monthly targets and provide exceptional service to customers
- Maintaining strong customer relationships and resolving any issues in a timely and professional manner
- Continuously updating my knowledge of industry developments and advancements in technology to ensure that I am providing the best possible service to customers.

Mogeni Tea Factory

Electrical and electronics engineer

January 2020 - April 2020 (4 months)

- Successfully led the setup of backup power solutions, including generators and transfer switches, to ensure continuous operations even during power outages
- Developed expertise in electrical and control motor circuits, as well as automation and industrial networking technologies
- Contributed to the implementation of advanced sensors for temperature, pressure, and level measurement in the Cut Tear Curl (CTC) automation process
- Proven ability to work effectively in fast-paced industrial environments, with a focus on safety, efficiency, and high-quality workmanship.
- Demonstrated experience in project management and coordination, working closely with crossfunctional teams to meet project goals and deadlines.

DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY (DeKUT)

Electrical Engineering Intern
January 2019 - April 2019 (4 months)

Computer Software applications:

-Proteus Professional

-NI Multism

-Lt Spice

-Power World

-Labview

Basic mechanical engineering skills:

-Lathe machine workshop, sheet metal workshop, and welding workshops

Education

DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY (DeKUT)
Bachelor of Science - BS, Electrical and Electronics Engineering · (May 2017 - May 2022)

Udacity

NanoDegree, Machine Learning · (June 2022 - August 2022)

India Skill Capital

Nano Degree, NanoDegree, Introduction to Data Science · (May 2022 - September 2022)

Data Brio Academy - Big Data Analytics, Data Science, Python, R, SAS, Hadoop Training Institute

Computer science, Introduction to python programming · (January 2021 - June 2021)

Simplilearn Alumni

Introduction to Front End Development