# RICKY SAMBO MACHARM

## DATA SCIENTIST

#### CONTACT

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## **EDUCATION**

Master of Science in Financial Engineering World Quant University 2021

Certificate in Python for Algo Trading Saarland University of Applied Sciences Germany

Bachelor of Engineering
(B.Eng.) in Electrical &
Electronics Engineering
Abubakar Tafawa Balewa
University
Bauchi, Nigeria

#### **SKILLS**

MongoDB MySQL Dash XGBoost Scikit Learn FastAI

#### WORK EXPERIENCE

## Data Science Teaching Assistant (Remote)

WorldQuant University

2022 - current

- Worked with scores of students to understand the basics of Python, Pandas and Data Science
- Helped students to fully work with scikit learn, MySQL, MongoDB, Bash Commands, building web apps and performing A/B testing
- Watch out for bugs in the codes and the terminals

## Freelance Consultant

## SisengAI

2021 - current

- Consultant with GIZ project Energy Solutions for Displacement Settings (ESDS), Ethiopia developing end-user financing for refugee and host communities in Gambella region
- Diagnosis and maintenance of lab equipment for the African Union (AU)-PANVAC, Debre Zeit Ethiopia
- Building backtesting apps for deployment
- Running a Python and Data Science coaching program

# Data Scientist/Energy Manager

Siseng Consulting LTD

2017 - 2020

- Experience with analysis of UAV images using Artificial Intelligence algorithms
  to investigate the impact of Electrical, Solar and other man-made installations
  on the environment and also to create reports on predictive maintenance of
  infrastructures on different sites. AI inspection can annotate faults in images
  quickly and with high accuracy
- Experience with working with clean energy projects funded by international Agencies (German International Cooperation etc
- Experience in the design and installation of electrical systems and solar systems required along with familiarity of electrical codes and standards
- Strong computer skills on regular office applications with well-developed data analysis skills using Python and excel
- I was able to accomplish Load Profile data collection for a 710kW site as a subcontractor for Likusasa Holdings Limited in preparation for mini grid project in 2019
- I have experience with site orientation and advisory services on solar design and component selection, Installation, and maintenance

coaching in:
Python
Data Science
Artificial Intelligence
Python for Algorithmic Trading

- I conducted and completed a feasibility and market study, in conjunction with undergraduate students of University of Applied Sciences in Austria, on Garki Market, Abuja, Nigeria, with an area of over 123 square meters
- It gives an overview of the market status and potential
- Load Profile analysis of buildings based on the kWH energy consumption and equipment use found in each shop
- Supported the design, planning and Installation of over 60 Solar-thermal heaters in a secondary school
- As a consultant with Geselleschaft für Internationale Zusammenarbeit (GIZ)
  GmbH overseeing solar installations in Adamawa and Borno States in the North
  East of Nigeria

## Principal Electrical Engineer

National Veterinary Research Institute, Vom

#### 2007 - 2018

- I headed a team of 4 engineers to run the maintenance schedule for various labs
- I planned and carried out walk-Through energy audits of offices and recommendations written to management for improvement
- I successfully led the team responsible for the daily maintenance of the Bio-Safety Level 3 (BSL 3) Laboratory
- I worked with the South African team of engineers that designed and constructed the Bio-Safety Level 3 (BSL 3) laboratory
- Over a period of ten years, I carried out regular Maintenance of Laboratory equipment (Hot air Ovens, freeze dryers, cold rooms, bio-safety cabinets, incubators, Liquid Nitrogen Plant, autoclaves, air compressors, Heating Boilers, bore-Hole water pumps and panels etc
- Designing Standard operating procedures (SOP) for fault reporting in laboratories
- Installing and maintenance of a three-phase inverter system and battery bank (480v, 1.6kWH) for air-handling unit of a laboratory

# Electrical Engineer I

Jos Metropolitan Development Board, Plateau State

#### 2006 - 2007

- Head of the Electrical Engineering department
- Oversaw the day-to-day operations of the Electrical Department while reporting to management
- Supporting the development of strategic operational plans while assigning and supervising activities of Junior electrical technicians

# Campus Coordinator

Great Commission Movement of Nigeria, Maiduguri

#### 2001 - 2005

- Co-facilitated the establishment of a network of students' development practitioners across university campuses in the North-Eastern States of Adamawa, Bauchi, Borno and Yobe States
- Conceptualized various pilot development projects with the identified students in Mubi, Yola, Yobe and Maiduguri campuses

- Coordinated the implementation of the initiated projects across the four campuses and designed the monitoring and evaluation framework for the projects
- Ensured quarterly reporting of progress and dissemination to the project stakeholders, including the funders
- Organized joint reflection and learning events for participating students across the four campuses
- Ensured knowledge management and dissemination of best practices
- Served as a resource person for building the capacities of students during annual national and international retreats
- Represented the regional project coordinator in acting capacity, in his absence
- Jointly planned regional and international workshops, seminars and conferences across Nigerian and Accra, Ghana