

OGAYE MICHAEL

Mailing Address: P.O Box 30197– 00100, Nairobi. Kenya *Nationality:* Kenyan
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EDUCATION

- University of Nairobi** – Nairobi, Kenya Sept 2015 – Present
- Bachelor of Science in Mechanical and Manufacturing Engineering, Expected Graduation: September 2021
- Liberty Counselling and Management Institute-** Webuye Kenya March 2015 to August 2015
- Certificate in information technology, computer literacy and management
- Maranda High School**– Bondo Kenya Jan 2011 – Nov 2014
- Kenya Certificate of Secondary Education, Mean Grade: A
- S.t Thomas Aquinas Bar-Mwofu primary School-** Bondo Kenya Jan 2003- November 2010
- Kenya certificate of primary education. Score 351 out of 500

EXPERIENCE

PROJECT GOR 002/2020 –DESIGN AND FABRICATION OF A BAGASSE BRIQUETING MACHINE - *Jan 2020- March 2021*

Background of the project

Focused on building a machine that will utilize the available biomass wastes such as water hyacinth, bagasse, rice husks, maize cobs and bamboo to make alternative high calorific value fuel as a sustainable alternative to wood charcoal.

Tasks

- Proper definition of the scope of the problem
- Market research to draw comparisons between existing technologies and their challenges and customer requirements
- Concept generation, evaluation and selection, developing customer requirements into the engineering requirements
- Material selection and sizing by utilizing the engineering knowledge and industry standards
- Standardization, mechanical drawings and simulation
- Finally the machine was fabricated.

PUBLICS WORK, MECHANICAL SECTION ---- *Mechanical engineering Attaché* Oct 2019 – Dec 2019

- Collaborated with the Mechanical, Electrical and Plumbing departments, in order to develop Auto-CAD software designs for 5 projects, through physical meetings and e-mail exchanges.
- Supervised 2 project sites by conducting weekly site visits that ensured implementation of authorized project designs, and communicated the updates to clients during monthly stake-holder meetings.
- Compiled Bills of Quantities for 5 projects by gathering and analyzing the market prices for products through online and physical product portfolios.
- Offered mechanical building services including; Interpretation and production of Mechanical services installation drawings; Internal plumbing, drainage and water reticulation installation works; Air conditioning, refrigeration and Mechanical ventilation installation works; Kitchen equipment installation; Solar water heating installations; Petrol station equipment and compressed air installation; Swimming pool equipment installations; Water supply and storage systems; Fire protection and safety services
- Prepared and submitted reports to the Supply Chain Manager on material supply and usage at the site.
- Organized logistics for delivery of building materials to the project sites

GLOBAL CITIZENS CLUB, ---- *Volunteer Teacher /Trainer* (Jan 2016- August 2016)

Partnered with Moringa School, a coding institution, to provide free weekly coding lessons to the pupils by sending volunteers who used government-sponsored computers to teach.

LEADERSHIP AND AWARDS.

BIG 5 CONSTRUCT KENYA 2019 CONFERENCE, 3RD EDITION

5-7TH NOV 2019

The workshops agenda included

Project management as a career by Rose Kananu Managing director, Howard Aidevo

Disruptive technology: moving with time in the age of artificial intelligence, social and market evolutions changing landscape in project management by Jeanne Mathenge, programme director Global protocols solution

Architecture and design – shipping containers as an alternative building house material by Grace Atieno Odhiambo, head of design, cubes and containers design Kenya limited

Gains and awards

Access to hundreds of innovative products, some not found in Kenya

Witnessed products in real time being demonstrated by exhibitors

Got multiple networking opportunities with other visitors

Got free CPD certified workshop and attendance certificates

SKILLS

- Fluent in English, Swahili, and Dholuo
- Proficient in Engineering design software such as **Autodesk inventor professional** and **AutoCAD**
- Proficient in Microsoft Word, Excel and PowerPoint
- Proficient in finite element analysis software such as **ANSYS**
- Acquaintance with **Arduino** development environment
- Proficient in C++ programming language

REFEREES

DR. T.M OCHUKU.

Chairman, Department Of Mechanical and Manufacturing Engineering.

Final Year Project Supervisor.

University Of Nairobi.

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PROFESSOR GEORGE.O. RADING

Project GOR 002/2020 supervisor

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