

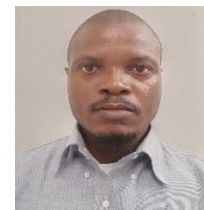
ERU OGHENERUKEVWE

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EXECUTIVE SUMMARY

- An engineer with a background in the energy and materials industries, with over a decade of experience in Q&A, logistics, construction, and R&D while working with clients across the EMEA region.
- Achievements include:
 - Developed a new business unit and expanded the clientele base to SCM which included supply to offshore petroleum locations and improved the quarterly revenue at Val Eruden Nig. Coy. before my exit.
 - Optimised composite products' design and their mechanical properties under sponsorship by the "Strategic Initiative Materials in Flanders" initiative with several corporate partners.
 - Contributed to the Montanuniversitaet Leoben, Austria's research effort to drive circular economy and sustainability under the thematic area of slag valorisation and utilization (ferrous and Copper slags).

KEY SKILLS & COMPETENCIES

Technical

Siemens Modelling suite
Aspen Hysys
LCA tools
PM tools

Management

Cross-Functional Team Leadership
Team Management
Knowledge Management

Interpersonal

Client Relationship Management
Communication and Presentation
Mentoring and Professional Development

PROFESSIONAL EXPERIENCE

ENERGY ANALYST (BATTERY)

NOVEMBER 2022 – TILL DATE

reLi GmbH | Damstadt, Germany

- I analyze the trends in the market to identify opportunities, perform and present competitors' analysis to identify areas where our company can surpass the industry's competitors; and identify go-to-market gaps and potential partners for a specific industry or technology.

RESEARCH ASSISTANT

NOVEMBER 2021 – SEPTEMBER 2022

The Centre for High Temperature Processes and Sustainable Materials Management, Leuven, Belgium | K1-MET & Institute of Mechanics, Leoben, Austria.

- I successfully conducted research (via in-situ experiments and modelling) on the optimization of steelmaking process, showing the effect of temperature and particle morphology on dissolution time and curves in oxide slags of varying compositions using a confocal laser microscope (CLSM).

Supervisors- Prof. Bart Blanpain (KUL) and Prof. Ernst Gamsjäger (MUL)

Research Accessor - Prof. Johannes Schenk (MUL)

MATERIAL CONTROL SPECIALIST/ INTERN **ZF GROUP | Lommel, Belgium**

JULY 2021 – SEPTEMBER 2021

- I was assigned to the Innovation Management Unit and worked at Antwerp-Berchem and Lommel where I was exposed to the design and manufacture of components required for the wind energy industry. Supervisor: Dr. Swarnakar Akhilesh.

[Achievements/ Outcomes]

- I successfully conducted a qualitative data analysis of the production and supply chain flow of semi-finished components across the company's plants in Belgium, China and India. I proffered solutions for observed process trends (machinability) arising from the effect of the wind turbine components' chemical composition, mechanical properties optimization.

RESEARCH INTERN

DECEMBER 2020 – AUGUST 2021

Siemens Digital Industries Software | Leuven, Belgium

- I was a researcher on the "Strategic Initiative Materials in Flanders" project under the SIM-ICON Project. My research was on the use of cutting-edge predictive tools for the analysis of the process-performance relationship of thermoplastic composites. Supervisor: Dr.

[Achievements/ Outcomes]

- I did research (experiments and modelling) on the effect of high temperature on carbon fiber reinforced plastics (CFRPs) placed under biaxial loading conditions in order to check the impact of fibre orientation and local fibre volume fraction on shaped composite components.

RESEARCH ASSISTANT

NOVEMBER 2019 – DECEMBER 2020

Montanuniversitaet Leoben, Austria | Leoben, Austria

- Assistant at the Chairs of Thermal Technology and Ferrous Metallurgy, with a research focus on the Carbothermal treatment and processing of metallic slags. Supervisors: Dr Christoph Ponak and Prof. Harald Raupenstrauch.

TEAM LEAD/PROJECT SUPPORT

MARCH 2011 – DECEMBER 2016

Val-Eruden Nigeria Company | Warri, Nigeria

- Preparation and issue of deliverables such as material requisition, technical bid evaluation, and purchase requisition as required by, for procurement activities.
- Ensures all relevant safety objectives and legal requirements are observed and accountable for engineering tasks to ensure they meet contract requirements.

PUBLICATIONS

- Main author, "Influence of laser surface treatment on the structure and properties of steel" (Under Review).
- Presentations at the 10th and 11th European Geothermal PhD Day at Potsdam, Germany and Pamukkale, Turkey.
- Presentation at the SPE 's Student Technical Conference, Aachen, Germany in November 2019.
- Presentation at the C. Popa International Competition, Ploesti, Romania in May 2018. Took the 3rd position.

RESEARCH

- Industrial waste valorization via accelerated carbonation and carbothermal treatment.
- Material selection and corrosion testing of materials exposed to supercritical CO₂.
- The optimization of steelmaking process through slag engineering.
- Enhanced Asset Management through Sustainable Energy Production during Oilfield operations.
- CCUS and Hydrogen studies (production & storage and utilization).

EDUCATION

UNIVERSITY OF MISKOLC, HUNGARY

Research Scholar, Institute of Metallurgy, Faculty of Materials and Chemical Engineering

SPRING 2023

TU GRAZ, AUSTRIA

Product Innovation & Development Program, Institute of Innovation Management

2021-2022

AJOU UNIVERSITY, SOUTH KOREA

Exchange Year, Department of Materials Engineering

SPRING 2021

KU LEUVEN, BELGIUM & MONTANUNIVERSITAET LOBEN, AUSTRIA

M.Sc., Sustainable Materials (Double degrees in Materials Engineering & Sustainable Metallurgy)

2019 - 2022

MONTANUNIVERSITAET LOBEN, AUSTRIA

M.Sc., Geoenery Engineering, Department of Petroleum Engineering

2018 – 2023

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI, NIGERIA

B.Eng., Energy Engineering (Elective: Petroleum Engineering Technology)

2003 - 2008

MISCELLANEOUS INFO

LIFELONG LEARNING

EFW ADDITIVE MANUFACTURING CERTIFICATION

Level: Metal Coordinator (Advanced)

NOVEMBER 2022- MAY 2023

SUMMER SCHOOL KU LEUVEN, BELGIUM

Theme: "Digitizing the circular economy"

Modules included: Flowsheeting and evaluation of the resource efficiency of metallurgical and recycling systems

JULY 2020

EIT RAW MATERIALS MANAGER COURSE

Theme: Competitive sustainable business of metal recycling

2019-2020

Modules included: Corporate social responsibility, responsible mining, global RMs distribution principles and processes, Adoption of clean and environmentally friendly technologies and industrial processes in the era of transformation to circular economy model in Europe.

AGH UNIVERSITY OF SCIENCE & TECH, POLAND

Theme: Creative Ideation & Innovation for Circularity and Sustainable Management of Raw Materials and Natural Resources"

2020

Modules included: Modelling and optimizing the location of factories for processing and generating value from waste, Devising routes for bioplastics production from waste valorisation, etc

BIZMET ACADEMY, LUT UNIVERSITY, SWEDEN.

Theme: Competitive sustainable business of metal recycling

2019-2020

Modules included: circular economy, with a focus on the business of metal recycling - technology, sustainability, business and regulative aspects.

FRAUNHOFER IFAM LIGHTWEIGHT PROGRAMME,

Theme: Lightweight materials

SEPTEMBER 2019-ONGOING

SUMMER SCHOOL, GRENOBLE INP; FRANCE

Theme: "From raw materials to sustainable businesses"

SEPTEMBER 2018

Awards: The European Institute of Innovation and Technology (EIT) MSc. scholarship (Full)

Nationality: Nigerian

Languages: English (native), German (basic)

Hobbies: Volunteering, Reading, Running and Hiking