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ERU OGHENERUKEVWE

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 — JULY 2021 – SEPTEMBER 2021

ZF GROUP | Lommel, Belgium

- 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 CO_2.
- 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 **SPRING 2023**
Research Scholar, Institute of Metallurgy, Faculty of Materials and Chemical Engineering

TU GRAZ, AUSTRIA **2021-2022**
Product Innovation & Development Program, Institute of Innovation Management

AJOU UNIVERSITY, SOUTH KOREA **SPRING 2021**
Exchange Year, Department of Materials Engineering

KU LEUVEN, BELGIUM & MONTANUNIVERSITAET LEOBEN, AUSTRIA **2019 - 2022**
M.Sc., Sustainable Materials (Double degrees in Materials Engineering & Sustainable Metallurgy)

MONTANUNIVERSITAET LEOBEN, AUSTRIA **2018 – 2023**
M.Sc., Geoenergy Engineering, Department of Petroleum Engineering

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI, NIGERIA **2003 - 2008**
B.Eng., Energy Engineering (Elective: Petroleum Engineering Technology)

MISCELLANEOUS INFO

LIFELONG LEARNING

EWF ADDITIVE MANUFACTURING CERTIFICATION **NOVEMBER 2022- MAY 2023**
Level: *Metal Coordinator (Advanced)*

SUMMER SCHOOL KU LEUVEN, BELGIUM **JULY 2020**
Theme: *"Digitizing the circular economy"*
Modules included: Flowsheeting and evaluation of the resource efficiency of metallurgical and recycling systems

EIT RAW MATERIALS MANAGER COURSE **2019-2020**
Theme: *Competitive sustainable business of metal recycling*

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 **2020**
Theme: *Creative Ideation & Innovation for Circularity and Sustainable Management of Raw Materials and Natural Resources"*

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. **2019-2020**
Theme: *Competitive sustainable business of metal recycling*

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

FRAUNHOFER IFAM LIGHTWEIGHT PROGRAMME, **SEPTEMBER 2019-ONGOING**
Theme: *Lightweight materials*

SUMMER SCHOOL, GRENOBLE INP; FRANCE **SEPTEMBER 2018**
Theme: *"From raw materials to sustainable businesses"*

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