

ABDALLAH SANUSI

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SUMMARY

I am a graduate of Chemical Engineering, well-grounded in science-related fields with a high level of creativity that produces innovative and progressive ideas. My aim is to be associated with a company where I can showcase my skills whilst gaining experience and enhancing the company's productivity and reputation. Notable strengths amongst others include problem-solving, management, work ethic, and tenacity all of which fuse my ability to exceed expectations in any given role.

PROFESSIONAL EXPERIENCE

Project Engineer

Addax Petroleum Nigeria Ltd (June 2019 - June 2020)

- Conducting project procurement activities, including requisitioning of engineering materials and equipment.
- Responsible for safety, quality, costing, and scheduling of work scopes and deliverables.
- Ensuring alignment of project objectives with stakeholders (construction, business, procurement).
- Identifying enhanced work processes and driving improved processes for efficiency.
- Anticipation of risks and developing mitigation strategies.
- Completing project turnover and close-out activities to the operations organization.

Assistant Plant Supervisor

Dangote Sugar Refinery Plc (December 2018 - May 2019)

- Supervision and calibration of plant equipment.
- Team collaboration with stakeholders on company objectives and targets.
- Documentation of plant production.
- Risk assessments and implementation of safety measures.

Assistant Production Engineer

Vitafoam

(January 2017 - June 2018)

- Identification of the processes, equipment, and raw materials needed to produce foam.
- Applied various calibrations on the machine before production for the various products manufactured.
- Created prototypes of the desired products prior to production.
- Carried out the necessary laboratory tests on the products to determine the strength and quality of what was produced.
- Recorded daily, the number of products produced.
- Carried out quality checks of the final products.

PROJECTS

SYSTEMATIC REVIEW OF CO₂ ABSORPTION USING MEMBRANE TECHNOLOGY.

- Analysis and summary of various carbon capture systems.
- An extensive inspection of previous literature on membrane technology for CO₂ separation.
- Presentation of a holistic insight on numerous membrane solvents for CO₂ absorption.
- Study of several materials utilized for the synthesis of membranes.
- Examination of membrane modules and processes.

RESEARCH STUDY ON CARBON CAPTURE AND STORAGE TECHNOLOGIES.

- Research on the various impact and effects of carbon capture.
- Study of the methods of separation of CO₂ and various carbon capture technologies.
- Investigation of Various types of renewable energy as an alternative source of energy.

STUDY OF THE PROPERTIES OF POLYPROPYLENE/LOW-DENSITY POLYETHYLENE POLYMER BLEND.

- General research on polymer blends.
- Produced a blend of Polypropylene and Low-density polyethylene using an extruder.
- Varied the ratios of each polymer blend composition.
- Carried out mechanical tests on polymer blend products.

RESEARCH STUDY OF MXENES AND GRAPHENE.

- Research on the synthesis of Graphene and other 2-D materials.
- Studying the properties of 2-D materials.
- Present and future applications of 2-D materials and their prospects.

OPTIMISATION OF AN AMMONIA PLANT USING PINCH ANALYSIS UTILIZING HYSYS AND EXCEL.

- Extracted and compiled flow sheet data from the initial HYSYS simulation of the Ammonia Plant.
- Made a problem table and carried out cascade analysis from the data for heat integration.
- Designed a minimum energy requirement heat exchanger network from analysis and calculations.
- Modified the HYSYS simulation to use heat exchanger networks rather than depending on external utilities.

EDUCATION

London South Bank University

Master of Science (Merit),
Chemical Engineering and Process Management
(Graduation Year - September 2021)

Lagos State University

Bachelor of Science (Merit)
Chemical and Polymer Engineering
(Graduation Year - April 2019)

TECHNICAL SKILLS

Engineering Software

HYSYS, Star CCM+, MATLAB, Polymath

Programming Languages

Python, React, JavaScript, HTML5, CSS.

Database

PostgreSQL, MongoDB, SQL

Tools

Cit, GitHub

OTHER SKILLS

- Attention to detail
- Problem Solver
- Excellent Communication Skills
- Resourceful
- Organized and Efficient
- Self Motivated
- Courteous
- Committed Team Player