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| **Pius Onyia** | 9050 Youree Drive,  Shreveport, LA, 72903  (I am open to relocation)  Phone: +14059160656 Email: [piusonyia01@gmail.com](mailto:piusonyia01@gmail.com)  [LinkedIn Link](https://www.linkedin.com/public-profile/settings?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_self_edit_contact-info%3BS%2Bn29YB9Sb%2BZBcyvokxUXQ%3D%3D) |

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| **Professional summary** |

I am a highly motivated Engineer with proven industrial and management experience. I have applied my knowledge in engineering to solving real-world problems. My desire has always been to contribute towards the growth and success of organizations by contributing my talent and innovative skills as an experienced Engineer.

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| **EDUCATION** |

**Master of Science in Mechanical Engineering**

University Of Central Oklahoma – Edmond, Ok May 2023

**Bachelor of Engineering in Chemical Engineering**

Nnamdi Azikiwe university Awka Sep. 2014

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| **THE RELEVANT COURSE WORKS AND PROJECTS** |

**The University of Central Oklahoma —Edmond, OK** Jan - May 2023

***Mechanical Engineering Capstone Project: Design of a continuous stirred tank chemical reactor.***

* Generated Pulse Width Modulation (PWM) to determine the optimum operating conditions of a chemical reactor using different chemical reactions.
* Designed a portable automated Continuous Stirred Tank Reactor (CSTR) that can be used for homogenous mixing of chemicals for high conversion.
* Used a peristaltic pump and Arduino microcontroller to control the temperature of the designed system.

***Mechatronics Engineering Projects***  Jan – May 2023

* Designed ball-joint arm, cover plate, ratchet wheel, and rachet stop mechanical devices using SolidWorks and 3D printer.
* Utilized NI-Multisim software to prototype, design, and test voltage divider, Wheatstone bridge, and impedance-matching electrical circuits.
* Designed and prototyped DC-motor motion control, stepper-motion control, PID motion control, and solenoid control circuits using Arduino.

**The Nnamdi Azikiwe University Awka —Nigeria**

***Process Engineering Design Project***  Oct- Dec 2013

* Designed automated 2-ethyl Hexanol process plant.
* The plant was designed to produce 40,000 tons per year using synthetic gas and propylene as raw materials.
* The optimum operation parameters were generated using Hysys software. This software was also utilized to generate energy and mass balances and the overall simulation.

***Engineering Research Project***  Jan – Jun 2014

* Studies on the production of Butanol Ethanol and Ethanol from sweet potato peels and wastes using clostridium acetobutylicum.
* The process plant was designed, and the overall process simulated using Aspen Hysys.

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| **EXPERIENCES** |

**ROBOTCS ENGINEER**

Kaleidoscope Innovation - (Amazon FC SHV1 contractor) August 2024 – Present

* Facilitates the daily operation of the Alpha/ Beta level work cells of Amazon robotics
* Onsite software, controls, and hardware support and coordination for product tests
* Support setup and configuration of software and hardware systems
* Collaborates with and supports remote hardware and software development teams, providing local coordination of activities as needed.
* Assist with identification of hardware issues and software bugs; perform and/ or support root cause analysis, and installation of corrective actions
* Perform planned daily, weekly, and monthly hardware preventative maintenance activities
* Complete unplanned maintenance/ repairs as needed following prescribed instructions.
* Install Hardware changes.
* Provide documentation and updates as directed, including collecting data, data analysis, and creating reports
* Coordination, collaboration, and relationship development with onsite parties to meet priorities and deadlines.

**MECHANICAL/ROBOTCS TEST ENGINEER**

Walmart Advanced Systems & Robotics – Arkansas September 2023 – August 2024

* Utilize Linux, Alphabot Control System (ACS), and Robotics Control System to manage system operations and resolve system issues on a day-to-day basis for system quality assurance.
* Repair and fix the robotics components parts like charge toes and other mechatronics components.
* Maintain and troubleshoot all Robotic and Structure issues causing operational interruptions.
* Collect information on any system issue identified on daily basis and provide feedback to Support team.
* Implement any recommendations from Support team and provide updates.
* Perform any engineering recommended upgrade or rework.
* Complete Quality checklist and send it to the appropriate team Lead.
* Maintain all electro-mechanical tools, and spare parts in good condition at all times.

**GRADUATE TEACHING ASSISTANT**

University of Central Oklahoma – Edmond OK October 2021 - May 2023

* Instructed general Physics laboratory classes for groups of 14-21 undergraduate students.
* Administered laboratory exams, assisted the professor, and answered student questions.
* Assisted professors with teaching, grading and creating in-class assignments sessions for students.
* Instructed students in lab safety along with the proper care and use of lab equipment and conducted numerous lab experiments.

**VALIDATION ENGINEER**

Viatris/Mylan - San Antonio Texas June 2022 – August 2022

* Conducted process validation, packaging validation, cleaning validation & monitoring.
* Utilized cGMP, 5s, GDP, and GAMP-5 and strong computer as well as statistical skills in supporting validation activities as needed.
* Involved in reviewing the Validation Master Plan to point out any gaps throughout the project pertaining to validation activities.
* Prepared Validation Master Plan, Process Validation Plan, Risk Management Master Plan, and Cleaning Validation Policy. I also participated in generating revised SOPs to assist technicians.
* Led Validation of Facility, Equipment, and Utilities for new Bulk Pharmaceutical Finishing Area.

**OPERATION MANAGER**

Rainoil Limited **-** Lagos May 2017 - August 2021

* Utilized Lean Tools, Kanban, six sigma concepts and project management skills during facilities constructions such as reducing the amount of construction materials stored in the warehouse resulting in annual savings. This was achieved by using Just in Time (JIT) supply of the construction materials thereby reducing the cost of storage of such materials.
* Supervised daily operations of multiple gas stations, and upcoming stations during company’s expansion projects.
* Supervised the feasibility studies for proposed site for new company projects.
* Conducted viability of the proposed sites and recommended the most profitable locations to Rainoil executive directors for new gas stations utilizing data management.
* Mentored the operators on the revised Standard Operating Procedures when necessary.
* Supervised underground and surface tanks construction and calibrations as well as the calibration of the pumps. I also supervised the installation of the tanks, generators, and pumps.
* Commissioned of multiple gas stations while assisting in the supply chain of the industry.

**PROCESS ENGINEER**

Unicane – Lokoja (INTERNSHIP) June 2016 – May 2017

* Troubleshoot problems as they arise as well as mentored production staff.
* Facilitate successful Kaizen and rapid improvement process events.
* Lead and grow a culture of Continuous Improvement and Change Management with production activities.
* Facilitated continuous improvement projects focused on Team Member safety and quality improvements.
* Provided efficient leadership and cost-effective integration of Continuous Improvement creating operational excellence.
* Identified processes needed to maintain or improve production levels and quality.

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| **RESOURCE GROUPS** |

* American Society of Mechanical Engineers – Member
* Institute of Electrical and Electronics Engineer - Member
* Society of Physics Students – Member
* National Society of Black Engineers - Member
* Institute of Professional Managers Association – Member

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| **CERTIFICATIONS AND BADGES** |

* Certified Trainer Cardinal Robot Safe Entry – Amazon Robotics 2024
* Certified IRC5 Operator – ABB Robot Training 2024.
* Certified Robotic System Operator – Alert Innovation (Walmart Advanced Systems & Robotics) 2023.
* Energy Transition Innovation Towards Low-Carbon Future – IFP School 2019
* Workplace Productivity Training – Rainoil Academy 2019
* Six Sigma Root Cause Analysis and Waste Elimination – Skillsoft 2022
* FMEA and Design for Six Sigma – Skillsoft 20222
* Lean Principles in Six Sigma Projects – Skillsoft 2022
* Six Sigma Cycle-time Reduction and Kaizen Blitz – Skillsoft 2022
* Six Sigma Exploratory Data Analysis – Skillsoft 2022
* Organizational Goals and Six Sigma – Skillsoft 2022
* Six Sigma Hypothesis Tests for Variances and Proportions – Skillsoft 2022.