

EZENWAJIAKU CHINONSO EMMA

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EDUCATION

- Mar 2017 – Present** **PhD** Mechanical Engineering, University College London (UCL) United Kingdom
Sep 2015 – Sep 2016 **MSc** Mechanical Engineering, **Distinction** University College London (UCL) United Kingdom
Sep 2006 – Jul 2011 **BEng** Mechanical Engineering, **First Class** University of Nigeria (UNN) Nigeria
Aug 2004 – Aug 2006 **OND** Mechanical Engineering, **Distinction** Federal Polytechnic Nekede (FEDPONEK) Owerri Nigeria
Sep 2000 – Jul 2003 **WASSCE: 8As** including Physics (**B**), Chemistry (**B**), Mathematics (**A**), Government College Owerri, Nigeria
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WORK EXPERIENCE

Jun 2013 – Sep 2015 **OPERATIONS READINESS ENGINEER (Contract) at SHELL PETROLEUM DEVELOPMENT COMPANY (SPDC) – LAGOS, NIGERIA**

- Managed Operations Readiness and Assurance (OR&A) reports and documentations which include performing quality checks, archiving and managing OR&A documents in live-links and websites to ensure documents are up to date and clearly accessible
- Planned, implemented and followed-up on OR&A assurance reviews
- Maintained an intelligent tracking system to capture the assurance review/risk assessment reports and action items, their implementation, follow-up and close-out
- Prepared quarterly assurance reports for OR&A and Production Services business performance meeting
- Managed OR&A team logistics for meetings, field visits and Away days

Aug 2010 – Oct 2010 **MAINTENANCE INTERN, PACKAGING DEPARTMENT at NIGERIAN BREWERIES AMAEKE GREENFIELD – ENUGU, NIGERIA**

- Assisted in Line1 restoration which involved total overhaul of production machines.
 - Supported the routine preventive maintenance on the bottle washer, labeler, EBI, Crate washer, pasteurizer and Filler (which involved gear setting, timing and lubricating the synchronous gear, changing pulleys, belts, maintenance of the centrifugal pump on bottle washer)
 - Supported in team production stock taking and updating the performance and production score board
 - Changed the bad conveyor chains
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PROJECTS

Sep 2016 **EXPERIMENTAL INVESTIGATION OF THE COMBUSTION CHARACTERISTICS OF BIOGAS AS AN ALTERNATIVE FUEL (MSc Project – UCL)**

- Supervised by Dr Ramanarayanan Balachandran
- Aimed at investigating the viability of biogas as an alternative fuel. The laminar flame speed, the sooting tendency, adiabatic flame temperature, combustion efficiency, the effect of CO₂ content and the overall effect of hydrogen enrichment on biogas combustion characteristics were investigated
- Contributed to the ongoing research in sustainable fuel in the thermodynamics research group at UCL
- Achieved an A grade for a good defence and technical report

Aug 2011 **DESIGN AND FABRICATION OF A LABORATORY SCALE FAST PYROLYSIS REACTOR (BEng Project – UNN)**

- Supervised by Dr Edmund Okoroigwe
- Aimed at producing bio-oil from biomass (Sawdust)
- Contributed to the ongoing research in energy conversion at the Energy Centre in UNN
- Achieved an A grade for a good defence and technical report

Aug 2006 **DESIGN AND FABRICATION OF POLYETHYLENE EXTRUSION MACHINE (OND Project – FEDPONEK)**

- Supervised by Engr. Emmanuel Olewuezi
 - Aimed at solving the pollution menace created by the advent of sachet water industry in Nigeria
 - The machine converts sachet water bags (polyethylene) into block pellets for further industrial processing hence reduced the pollution it created in Owerri, Imo State Nigeria
 - Achieved an A grade for a good defence and technical report
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VOLUNTARY EXPERIENCE

- Nov 2014 – Sep 2015** Main Floor Fire Warden, Freeman House - Floor 8, SHELL Building Lagos, Nigeria
Feb 2010 – May 2010 Personal Student Tutor for variety of students drawn from different schools in Lagos, Nigeria
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PROFESSIONAL TRAINING & DEVELOPMENT

Aug 2016 Associate Member of Institution of Mechanical Engineers (AMIMechE), London, United Kingdom
Aug 2014 Completed and certified in IOSH Working Safely and NEBOSH International General Certificate in Occupational Health and Safety, Lagos
Jul 2012/Dec 2012 Completed a training in Leadership and Mentoring by Mentoring Mentors group
Jun 2012 Completed a course in Project Management (Executive Masters – CUPE UK)

ACHIEVEMENTS

Aug 2005/Sep 2006 Editor-in-Chief, The Heritage Magazine
Sep 2006 Best graduating student in Mechanical Engineering Department 2005/2006 session, Federal Polytechnic Nekede
Mar 2009 Beneficiary PTDF local scheme scholarship for undergraduate study at UNN
Jun 2011 Led a team of 10 students in the design of CAMRY skeletal frame work – group project - obtained an A-grade for an excellent overall work.
Jul 2014 Beneficiary of the PRESSID scholarship for Masters and Doctorate study at UCL
Feb 2017 Department Best Prize award for the best overall performance on the MSc Mechanical Engineering, UCL
June 2019 Best PhD Presentation at the UCL Mechanical Engineering Conference 2019
Nov 2019 Postgraduate Research Student Representation Mechanical Engineering UCL

SKILLS & INTERESTS

IT Proficiency MS Word | Excel | PowerPoint | MATLAB | COSILAB | SOLIDWORKS
Languages Igbo (*native*) | English (*advanced*) |
Interests Football and Lawn Tennis | Reading and writing motivational articles | Traveling | NATGEO wild

REFERENCES – Available on request