**ANDREW IGNATIUS BROWN AIMMM**

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Portfolio: *https://mfonb.github.io/portfolio\_materials/*

Shape

**PROFILE**

An independent researcher currently developing own product and applying CAD and 3D simulation design. Open to be employed as well. Other areas of good knowledge include (not limited to) surface science principles, polymer, ceramics, rheology, electrochemistry/fuel-cell/battery, heat treatments, experimental design, and sample preparation.

**WORK EXPERIENCE**

**Welder/Fabricator.** **Strain Engineering, UK.** **November 2023– August 2024.**

* Application of good measurement/mathematics techniques in the design and building of materials.
* Use of surface science techniques in sample preparation and in the performance of welding/painting.

**Intern in Statistical Consulting.** **Dataville Research LLC.** **November – December 2023.**

* Performing statistical analysis of real-life data.
* Data visualizations to gain and communicate insights.

**Fellow of Development Research.** **Dataville Research LLC.** **September – October 2023.**

* Researched, brainstormed, and solved issues on international development/sustainability, and research methodology with fellows**.**
* Analysis ofstudy data using SPSS.

**Independent Sales Advisor.** **Money Experts/DJG Executives, UK.** **May – June 2023.**

* Effective communication and pitch in gaining customers.
* Good team working.

**Production Operative.** **Major Recruitment, UK.**  **May 2022 – September 2022.**

* Ensured efficiency through appropriate materials selection/engineering to avoid machine break-down (applied particle sizing and rheology techniques).
* Maintained a “clean as you go” work culture.

**EDUCATION**

**2023** **Certificate: Data Analytics (Ongoing, Part-Time).** **Masterschool (Online).**

Project 1: A and B test (statistics) to determine effect of a marketing strategy. GRADE C.

Project 2: Using statistics/machine learning algorithms in the segmentation of customers. GRADE B.

Modules: Introduction to data and working with Excel, working with SQL, statistics/data analysis with python, and data storytelling with tableau.

**2023** **Certificate: Algorithmic Design and Techniques (Achieved).** **University of**  **California San Diego.**

Dissertation: Designed and implemented algorithms using several algorithmic techniques.

**2020 – 2021** **M.Sc. Advanced Materials Science and Engineering (achieved). Loughborough University United Kingdom.**

Dissertation: Functional materials discovery using machine learning. Predicted new semiconductor materials for photovoltaic application by applying suitable machine learning algorithms and materials’ characteristics.

Modules: Clean energy materialsand sustainability, nanomaterials and composites, group design project, advanced processing of materials, advances in biomaterials, and advanced characterization of materials.

**2010 - 2016**  **B.Sc. Building (achieved). University of Uyo (Uniuyo) Nigeria.**

Dissertation: Effects of laboratory prepared acid rain on the mechanical properties of calcined periwinkle shell (ash) blended cement binder. Applied standards (BS EN and NIS), specific gravity, and aggregate grading tests.

Module: Mechanics of materials, building materials science, fluid mechanics, and thermodynamics in building.

**2002 - 2008** **Senior Secondary School Certificate, Queen of Apostles Seminary (QAS)**  **Nigeria.**

**SKILLS WITH APPLICATIONS**

* **Tensile test modelling/CAD** of materials using **MARC software, and ONSHAPE** (Loughborough University).
* **Materials specification, formulation, and analysis** (Loughborough University).
* **Machine learning, SQL, tableau, SPSS, data analysis, and Python (atomic simulation environment) programming software** (Loughborough University, UC San Diego, Masterschool, and Dataville Research).
* **Materials characterization/test: SEM (with practical), DSC, FTIR, DLS, NMR, flexural/compressive strength, nick break, and cupping tests** (Loughborough University, Uniuyo, and City and Guilds).
* **Ability to work to deadlines,** and **interpersonal skills** (academic and work experience).
* **Microsoft application software packages**: Project, Word, PowerPoint, and Excel (academic and work experience).
* **Laboratory Work (**Loughborough University, Uniuyo, and QAS).

**OTHER CERTIFICATIONS.**

**2024** **Basic Chemistry Online Course:** Apex Learning UK.

**2024** **Organic Chemistry:** Apex Learning UK.

**2024** **Lab Analyst and Laboratory Skills Level 5:** Apex Learning UK.

**2024** **Detailed Drawing:** Onshape Software.

**2023** **Associate of the Institute of Materials, Minerals and Mining.**

## **2023** **Data Analysis in Microsoft Excel Complete Training (Level 3):** Apex Learning UK**.**

**2023** **Tungsten Inert Gas (TIG) Welding Level 2:** City and Guild UK.

**2023** **MIG, TIG and MMA 3 Day Intensive Welding Course:** The Welding Academy (TWA) UK.

**2022** **Mechanical Engineering Drawing and Design:** Udemy.

**2018** **Environmental Impact Assessment:** Nigerian Department of Petroleum Resources.

**2018** **Health, Safety and Environment (including Risk Assessment)**: British International Safety Organization.

**2018** **Project Management Planning**, British Project Management Academy.

**RESPONSIBILITIES/ACHIEVEMENTS.**

* 76% grade: algorithmic design and techniques course.
* Course representative, Advanced Materials Science and Engineering (postgraduate taught 2020/2021): Loughborough University UK.
* Leader, Fine and Creative Arts Club (2007 – 2008): QAS.

**HOBBIES.**

* Sports (including chess, tennis, gym, and football). Earns an appreciable points on chess.com
* International current affairs.
* Entertainment shows/podcast.

**REFEREES.**

Available upon request.