



Jeffery Nosakhare Omorodion

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Personal Profile

I am hard-working and goal-oriented Chemical Process Engineer and a Doctoral student with an extensive experience in the multiphase flows involving granular material, process modelling, design, optimization and control using both theoretical and data-driven approaches.

I am constantly seeking ways to make processes more efficient, deepen my expertise through hands-on industry work experience and also be flexible enough to delve into the new areas.

Work Experience

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|-----------------|---|
| 06/2020-present | Doctoral Researcher at Laboratory of Process and Systems Engineering, Åbo Akademi University, Turku, Finland. Research is related to application of coupled finite volume and Discrete Element in the study of some aspects of multiphase flow in the blast furnace. Analysis and evaluation of the large quantities of generated data are performed using high-performance computing resources (Puhti and Mahti) of the IT centre of science (Finland) for distributed computing literature review and identifying sources of information relevant to the present studies and writing of scientific reports. |
| 04/2018-06/2019 | Master Thesis Worker at Laboratory of Process and Systems Engineering, Åbo Akademi University, Turku, Finland. Industrially driven project in collaboration with SSAB (Finland) - Application of the Discrete Element method in the study of segregation in polydisperse particulate material during charging and descent. |
| 09/2018-12/2018 | Board Secretary at ESN Åbo Akademi University, Turku, Finland. Writing the minutes for each meeting, assisting in organisation of events and implementation of other tasks assigned by the board. |
| 09/2017-06/2019 | Student tutor at Åbo Akademi University, Turku, Finland. Facilitating communications and interactions within new students and University. |
| 08/2017 | Conference Assistant in Turku School of Economics at the University of Turku, Turku, Finland. Assisting in the organization of the Work2017 conference. |
| 01/2016-07/2016 | Science Teacher at Yintab private academy Preparation of the lesson notes and teaching scientific concepts to the students, grading and evaluation of students. |

Education

June, 2019

M. Sc. (Tech) Chemical Engineering
Åbo Akademi University, Turku, Finland

GPA 4/5

Omorodion, J. (2019). Study of percolation phenomena in ironmaking by DEM. <http://urn.fi/URN:NBN:fi-fe2019051015052>

November, 2015

B. Eng. Chemical Engineering
University of Benin, Nigeria.
Second class upper division

Skills

- Languages: Bini – native, English – fluent, Swedish – beginner.
- Scientific computing using various robust, high precision, accuracy numerical method, e.g finite volume method with OpenFOAM, finite element analysis using Deal.ii, discrete element method using Yade-dem.
- Curve fitting, optimization using the Scipy ecosystem, FreeCAD for creating geometry for numerical studies, Gmesh and Salome for meshing.
- Energy and mass balance calculations around unit operation with the ability to work with process flow and instrumentation diagrams.
- Understanding of spreadsheet usage, programming language like C++, Python and tools like Git (version controlling), CMake (build system generator) and Linux bash shell for command-line.
- Capacity to comprehend new material and subject matter quickly.
- Working effectively and efficiently with limited supervision.
- Excellent interpersonal relationship and communication with past and current laboratory colleagues.
- Approach problems systematically by splitting problems into smaller manageable tasks, establish the connection between ideas, evaluate and analyze them in other to deduce conclusions.
- Able to work well under pressure as an individual as well as in a team.
- Respond appropriately to positive or negative feedback.
- Class B driver license.
- Work safety card.
- Basic first aid certificate from the Finnish Red Cross.

Conferences

Participation in 2 conferences with poster presentations (2018).

Other skills/Interest

Playing the recorder, watching documentaries and football, learning Swedish and travelling
