AJIFOWOWE IYANU MICHEAL

Curriculum Vitae

18, Gungdong-ro 72beon-gil, Yuseong-gu, 34138, Daejeon, South Korea — Ajifowoemicheal@gmail.com — (+82)1039527838 — www.linkedin.com/in/ iyanu-ajifowowe-24272622b —

RESEARCH INTEREST

Indoor Air Quality
Building HVAC system
Reinforcement Learning
Smart and Sustainable Environment

EDUCATION

M.Sc   Feb. 2025
Korean Advanced Institute of Science and Technology (KAIST)
Civil and Environmental Engineering
Advisor: Professor Seongju Chang

B.Eng   Dec. 2019
Federal University of Technology, Akure
Mechanical Engineering
Thesis: Development of an expert system for aircraft failure causes, predictions, and remedies
Advisor: Professor Akinnuli

RESEARCH EXPERIENCE

Graduate Research Assistant   Feb. 2023 - Feb. 2025
Korean Advanced Institute of Science and Technology (KAIST)
Supervisor: Professor Seongju Chang

EMPLOYMENT

Technical Operator   Aug. 2021 - Feb. 2023
RITES FOOD LIMITED
Maintenance Department
Operation and maintenance of Husky injection molding machine and its auxiliaries
for production of plastic preforms.

Graduate Intern   Mar. 2020 - Feb. 2021
MINISTRY OF WORKS AND TRANSPORT
Mechanical Department
Mechanical, Electrical, and HVAC work design on building plans using computer-aided software (AutoCAD).

AWARDS AND HONORS

KAIST Graduate Scholarship Award   2023 - 2025
Korean Advanced Institute of Science and Technology

Dream Foundation scholarship Award   2024
Insulation Korea Dream Foundation

TEACHING EXPERIENCE

CE560 (Smart and green environmental design)   Feb. 2024 - May 2024
Teaching assistant to Professor Seongju Chang

PUBLICATIONS

Journal Publications

Ajifowowe, I., Chang, H., Lee, C.S., Chang, S., "Prospects and Challenges of Reinforcement Learning-Based HVAC Control." *Journal of Building Engineering.* DOI: 10.1016/j.jobe.2024.111080.

A. Abiola, S.Fasasi, **Ajifowowe, I.**, A. Adeyemo. Development of an electric furnace using bentonite and kaolin sodium silicate as refractory material. International Journal of Mechanical Engineering and Technology (JMET). 8(1), 2024, pp. 1-10.

Fasasi Semiu. T, **Ajifowowe Iyanu**, Adeyemo Ayobami and Ajayi Abiola. Development of an Expert System for Aircraft Failures Causes, Predictions, and Remedies, International Journal of Aerospace Engineering (IJASE), 2(1), 2024. pp. 12-20.

LANGUAGES

English: Native Language, Distinguished levels in listening, Speaking, Reading, and Writing
Korean: Intermediate levels in Listening, Speaking, Reading, and Writing.

PROFESSIONAL SKILLS

Skills: Python, Machine Learning, Reinforcement Learning, STARCCM+, DesignBuilder, EnergyPlus

PROFESSIONAL AFFILIATIONS

Member: Nigerian Environmental Society (NES)   2022 – Present