europass



OHENEBA ATTA AGGREY

Work: University of Twente, De Horst 2, 7522 LW ENSCHEDE (NL)
E-mail: oheneba.aggrey@utwente.nl **Website**: oheneba-aggrey.github.io
LinkedIn: linkedin.com/in/oheneba-ag **ORCID**: 0009-0004-5780-4517

Gender: Male | **Nationality**: Ghanaian

WORK EXPERIENCE

[09/2024 - present]

Doctoral Researcher

University of Twente - Chair of Manufacturing Systems, ENSCHEDE Netherlands
Company sector: Engineering and design
Business or sector: education, training, research and development
Main activities and responsibilities: • PhD research on the early-stage planning of decentralized manufacturing systems (DMS).
• Identified five DMS archetypes from 30 product cases in 10 manufacturing sectors, with the processes harmonized using DIN 8580.
• Presented the results at APMS 2026 in Bergamo, Italy. Published by Springer.

[07/2023 - 09/2023]

Plant Process Engineer

Alpitronic - BOLZANO (BZ) Italy
Company sector: Engineering and design
Business or sector: energy, gas, water, mining
Main activities and responsibilities: • Used software such as visTABLE and FlexSim to design factory layouts and material flows for the assembly lines of EV chargers.
• Identified bottlenecks in factory processes and proposed solutions to improve efficiency.
Acquired skills and achieved objectives: Layout planning, material flow optimization, lean manufacturing

[05/2021 - 10/2022]

Systems Engineer

SunPower Innovations Ghana
Company sector: Engineering and design
Business or sector: energy, gas, water, mining
Main activities and responsibilities: • Performed sizing calculations for off-grid, hybrid, and grid-tied solar installations.
• Utilized AutoCAD to provide 2D drawings for roof solar installations.
• Performed inverter and solar panel installations for both commercial and residential buildings.
Acquired skills and achieved objectives: Project management, 3D modeling, simulation

EDUCATION AND TRAINING

[09/2022 - 07/2024]

Master of Science in Industrial Mechanical Engineering

Free University of Bozen-Bolzano (Libera Università di Bolzano)
Town: BOLZANO - BOZEN, Italy
2nd level degree in Mechanical engineering (Laurea Magistrale in Ingegneria Industriale Meccanica)
Final degree mark: 103/110
EQF level: 7
NQF level: 2nd cycle degree/Master of Science (2 years)
Dissertation/thesis title: Integrating Visual Management (VM) for Enhanced Assembly Instructions: A Comparative Study of VM-AR vs. VM Paper-Based Methods.

[09/2017 - 05/2021]

Bachelor of Science in Mechanical Engineering

Ashesi University
Town: BEREKUSO, Ghana

I hereby authorize the processing of the personal data contained in this CV in compliance with the European Regulation (EU) 2016/679.

LANGUAGE SKILLS

Other language(s)

English

LISTENING: C1 **READING:** C1 **WRITING:** C1
SPOKEN INTERACTION: C1 **SPOKEN PRODUCTION:** C1

Dutch

LISTENING: B2 **READING:** B2 **WRITING:** B2
SPOKEN INTERACTION: B2 **SPOKEN PRODUCTION:** B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

OTHER SKILLS

Communication skills

Throughout my work experience, I have cultivated the valuable habit of actively listening and observing those around me to acquire new knowledge and skills continuously. Additionally, my experience as a football player has fostered strong moral values, particularly regarding teamwork and prioritizing the team's success over individual goals.

DIGITAL COMPETENCES

SELF-ASSESSMENT				
INFORMATION AND DATA LITERACY	COMMUNICATION AND COLLABORATION	DIGITAL CONTENT CREATION	SAFETY	PROBLEM SOLVING
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Basic digital competence:

APPLICATION SOFTWARE

CAD - Assisted Design: SolidWorks (Highly Specialised) | **CAE Software:** Ansys (Highly Specialised) | **E-learning platform:** Unity (Highly Specialised) | **Project Management:** FlexSim (Highly Specialised), visTABLE (Highly Specialised)

COMPUTER PROGRAMMING

Programming languages: C# (Highly Specialised), MATLAB (Highly Specialised), NetLogo (Highly Specialised), Python (Highly Specialised)

DRIVING LICENCE

Driving licence category B

PUBLICATIONS

Conference proceedings

"Identification and Characterisation of Archetypes for Decentralized Manufacturing Systems". O. Aggrey, P. Ghafoorpoor Yazdi, P. Chemweno and S. Thiede. APMS 2026, IFIP Advances in Information and Communication Technology, Springer, pp. 474-488. (2026)
doi.org/10.1007/978-3-032-38598-7_33

"Visual Management (VM) and Augmented Reality (AR) for Enhanced Assembly Instructions: A Comparative Study of VM-AR vs. VM-Paper-Based Methods". O. Aggrey, L. Gualtieri and P. Dallasega. CLF 2025, Lecture Notes in Networks and Systems, Springer, pp. 280-287. (2025)
doi.org/10.1007/978-3-031-98883-7_34

"Design and fabrication of a bicycle-powered maize sheller for rural Ghanaian farmers". O. Aggrey and H. Beem. IEEE Global Humanitarian Technology Conference (GHTC), Seattle, WA, USA. (2020)
ieeexplore.ieee.org/document/9342910

I hereby authorize the processing of the personal data contained in this CV in compliance with the European Regulation (EU) 2016/679.