

# Linus Ebere Nwankwo

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## ABOUT ME

I am an enthusiastic researcher with a demonstrated history of working in the higher education industry. Currently, I am pursuing my PhD with a focus on SLAM, applications of LLMs and VLMs for HRI, and probabilistic machine learning. My expertise spans across various areas of robotics and machine learning, and I possess strong problem-solving skills. I thrive in collaborative environments and am equally adept at working independently, taking on tasks with minimal supervision.

## WORK EXPERIENCE

[ 10/2021 – Current ]

### PhD Student.

#### *Montanuniversität, Leoben*

**Country:** Austria

##### Tasks:

1. Conduct novel research toward improving human-robot interaction (HRI) in the real world.
2. Develop algorithms for autonomous robot navigation, localisation and mapping.
3. Collaborate with other researchers and attend conferences and seminars.
4. Teach, supervise, and mentor undergraduate students.

Work hours - (Minimum of 40 hours/week)

[ 06/2020 – 12/2020 ]

### Research Intern.

#### *Technische Universität Kaiserslautern*

**Country:** Germany

##### Tasks:

1. Model, simulate and analyse the dynamic behaviour of a mobile inverted pendulum robot (MIPendubot).
2. Implement a stabilisation control for the MIPendubot and estimate the pitch angle via complementary filtering technique and the full states via an observer-based approach.
3. Investigate the stabilisation control of the robot through a CANopen communication network.

Work hours - (Minimum of 40 hours/week)

[ 03/2015 – 03/2018 ]

### Mechatronics Instructor and Field Service Engineer.

#### *Skill "G" Nigeria Limited*

**Country:** Nigeria

##### Tasks:

1. Feasibility studies of laboratories & workshops across 73 universities in Nigeria.
2. Install Skill 'G's robotic, 3D printing, CNC machines, and hydraulic, and pneumatic training systems.
3. Train our clients on the operation and use of the equipment.
4. Provide technical support including testing, troubleshooting and resolving queries.
5. Led team for the equipment delivery & installation.

Work hours - (Minimum of 40 hours/week)

[ 03/2014 – 02/2015 ]

**Instructor, Computer Hardware Engineering Technology.**

***Cifman Institute of Technology & Management***

**Country:** Nigeria

**Tasks:**

1. Organize and deliver lectures to students on computer hardware, software and programming.

Work hours - (Minimum of 35 hours/week)

## EDUCATION AND TRAINING

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[ 09/2018 – 12/2020 ]

**Master of Science (MSc), Automation and Robotics.**

**Université Bourgogne Franche-Comté (UBFC)** <https://www.ubfc.fr/>

**Address:** 32 Av. de l'Observatoire, 25000, Besançon, France

[ 08/2007 – 08/2012 ]

**Bachelor of Engineering (B. Eng.) in Electronic, Computer and Telecommunication Engineering.**

**Nnamdi Azikiwe University** <https://unizik.edu.ng/>

**Address:** Along Enugu-Onitsha Expressway, Ifite Road, 420110, Awka, Nigeria

## DIGITAL SKILLS

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### Language Skills

English - Fluent | German - A2 | French - A1

### Google/Office Tools

Google Suite (Doc, Slides, Form, Sheet, Drive) | Microsoft Office | Overleaf & LaTeX

### CAD Tools

SolidWorks, Fusion 360, AutoDesk Inventor, Solid Edge

### Programming Skills and Tools

C++, Python, MATLAB, HTML, CNC (G & M Codes) | ROS, PyCharm, Visual Studio Code, Notepad++

### OS and Microcomputers

Linux, Windows | Nvidia Jetson, Arduino, Intel NUC, Raspberry Pi

## PUBLICATIONS

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[ 2024 ]

**[The Conversation is the Command: Interacting with Real-World Autonomous Robot Through Natural Language](#)**

**This paper is currently accepted for publication and presentation at the 19th Annual ACM/IEEE International Conference on Human Robot Interaction (HRI), 2024, Boulder, Colorado, USA.**

[ 2023 ]

**[ROMR: A ROS-based open-source mobile robot](#)**

**Publisher:** Elsevier HardwareX - ScienceDirect.com

[ 2023 ]

**[Understanding Why SLAM Algorithms Fail in Modern Indoor Environments](#)**

**Publisher:** Springer - Mechanisms and Machine Science

## CONFERENCES AND SEMINARS

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[ 14/06/2023 – 16/06/2023 ]

**32nd International Conference on Robotics in Alpe-Adria Region (RAAD)**

Bled, Slovenia

**Link:** <https://raad.ijs.si/>

[ 03/07/2023 – 07/07/2023 ] **9th International Summer School on AI and Big Data** Dresden, Germany

**Link:** <https://scads.ai/education/summer-schools/summer-school-2023/>

## HONOURS AND AWARDS

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[ 2023 ] **Best Student Paper Award. Awarding institution:** International Conference on Robotics in Alpe-Adria Region (RAAD).

**Link:** [https://cps.unileoben.ac.at/wp/Award\\_RAAD2023\\_Linus.jpg](https://cps.unileoben.ac.at/wp/Award_RAAD2023_Linus.jpg)

[ 2020 ] **International Mobility scholarship. Awarding institution:** Region Bourgogne Franche-Comte, France.

[ 2019 ] **I-Site Scholarship. Awarding institution:** Universite Bourgogne Franche-Comte (UBFC), France.

[ 2005 ] **NMC/PTDF Mathematics Incentive Award. Awarding institution:** National Mathematical Centre, Abuja, Nigeria.

## HOBBIES AND IN- TERESTS

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**Reading, hiking, cooking, and surfing the internet for news and updates on technology & artificial intelligence**