

Ahmed Yesuf Nurye

PH.D. CANDIDATE

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Education

Vrije Universiteit Amsterdam

PH.D. IN COMPUTER SCIENCE

- Advisors: Dr. Kim Baraka & Dr. Herke van Hoof (UvA).

Amsterdam, The Netherlands

Oct. 2025 – Present

Warsaw University of Technology

M.SC. IN ROBOTICS AND AUTOMATIC CONTROL

- Advisor: Prof. dr hab.inż. Elżbieta Jarzębowska.
- Thesis: Deep Reinforcement Learning for Mobile Robot Navigation in Dynamic Environments.

Warsaw, Poland

Oct. 2022 – Oct. 2024

Addis Ababa Science and Technology University

B.SC. IN ELECTRICAL ENGINEERING

Addis Ababa, Ethiopia

Oct. 2016 – Sep. 2021

Experience

The Hybrid Intelligence Centre

DOCTORAL RESEARCHER

- Working on interactive robot learning with flexible human feedback.

Amsterdam, The Netherlands

Oct. 2025 – Present

Scania Group

SYSTEMS ENGINEER

- Developed safety-critical embedded software for automotive battery systems and contributed to its end-to-end verification and validation.

Gdańsk, Poland

Apr. 2024 – Oct. 2025

Northvolt

SYSTEMS ENGINEER

- Performed end-to-end V&V of battery management system functions and developed Python packages to automate code generation and streamline system integration.

Gdańsk, Poland

Apr. 2024 – Apr. 2025

Publications

🎓 Google Scholar; † → Equal contribution

CONFERENCE PROCEEDINGS

- [C1] A. Y. **Nurye**, K. Baraka, and H. Hoof, “Show & tell: Robot learning with hierarchical corrective feedback,” in *(in submission) IEEE International Conference on Robotics and Automation, ICRA*, 2027.
- [C2] A. Y. **Nurye** and E. Jarzębowska, “Deep reinforcement learning for mobile robot navigation in dynamic environments,” in *2025 29th International Conference on Methods and Models in Automation and Robotics (MMAR)*, 2025. doi: 10.1109/MMAR65820.2025.11150841

Skills

Programming Languages	Python, C/C++, MATLAB, Bash
Robotics & Simulation	ROS 2, MuJoCo, Gazebo, Isaac Lab, Simulink
Software & Infrastructure	Linux, Git, GitHub, Docker

Tools and Software

gym-turtlebot: a turtlebot4 gymnasium environment

🐍 PYTHON | ROS2 | GAZEBO SIM

- A minimal ROS2 and Gazebo simulation setup for TurtleBot4 to rapidly prototype DRL navigation agents using the Gymnasium API.

website

Mar. 2025 – Present

MBD Simulink

MATLAB | SIMULINK

- Automates block insertion, naming, and connections in Simulink to streamline model-based design workflows.

GitHub

Dec. 2024 – Present