

# ELISHA ADIBURO ADIMALARA

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MSc Mechatronics & Automation — Robotics & Intelligent Systems

## PROFILE

Hands-on and automation engineer in training experienced in ROS 2, control systems, and autonomous systems integration. Skilled at combining software, electronics, and simulation to deliver working robotic solutions. Passionate about intelligent automation, subsea and aerial robotics, and sustainable offshore technologies.

## EXPERIENCE

**Student Assistant — IIR Automasjon — NTNU Ålesund**  
Present  
Ålesund, Norway

- **Event Camera Project:** Integrated Prophesee event camera with RGB vision for high-speed detection on autonomous vessel.
- **AutoDrone Competition:** Programmed autonomous drone missions (ROS 2 + MAVLink) for docking, speed-gate, and obstacle channel missions.
- **AI Skills App:** Supported development of prototype app for evaluating student performance and learning progress.
- **Fish Jig:** Assisted in building and testing jig for friction and 3D scanning experiments in fish industry research.

**Student Assistant — International Office — NTNU Ålesund**  
Aug – Dec 2025  
Ålesund, Norway

- Organized orientation and support activities for international students; assisted with academic, social, and mobility processes.

## KEY PROJECTS

- **Autonomous Aerial Drone:** Developing ROS 2-based system for autonomous water-quality data collection.
- **NVIDIA Kaya Robot:** Implemented YOLOv8 + Intel RealSense D435i in ROS 2 for cube detection and 3D EKF tracking.
- **AIS Data Analysis:** Built ML pipeline for trajectory prediction and anomaly detection in vessel AIS datasets.
- **Isaac Sim & Lab:** Designed PPO/SAC simulation tasks for navigation, balance, and control.

## EDUCATION

**MSc Mechatronics & Automation — NTNU Ålesund**  
2024 – 2026  
Robotics & Intelligent Systems

- Focus: Control Systems, ROS 2, Vision, Simulation, Machine Learning.

**BSc Civil Engineering — First Class Honours — KNUST**  
2019 – 2023  
Kumasi, Ghana

- Strong analytical and project management foundation.

## TECHNICAL SKILLS

### Programming

C++ Python MATLAB Bash Git

### Robotics & Control

ROS 2 Control Systems MAVLink Sensor Fusion Real-time Data

### Simulation & Modelling

Isaac Sim Isaac Lab Gazebo RViz SolidWorks Fusion 360

### Computer Vision & AI

Intel RealSense Event Cameras YOLOv8 OpenCV EKF Tracking

### Deployment & Tools

Docker Linux TensorFlow PyTorch Pandas NumPy

## LANGUAGES

- English — **proficient**
- Norwegian — **Basic**, learning

## REFEREES

Available on request.