

YOUSSEF ABBAS

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 YoussefAbbas2001

 Youssef Abbas

SUMMARY

Passionate engineer with a strong foundation in AI, Computer Vision, Natural Language Processing (NLP), Robotics, and Embedded Systems. Experienced in building autonomous robots, simulators, and AI-driven applications. Skilled in ROS, SLAM, and deep learning techniques for both vision and language tasks. Currently seeking roles in AI, Robotics, or Software Development.

PROFESSIONAL EXPERIENCE

ACME Saico C++ Developer	Remote Work 07/2024 - 03/2025
<ul style="list-style-type: none">Developed a high-fidelity simulator for the Egyptian Air ForcesSimulated both civil and military airport operationsUtilized Unreal Engine to build an interactive front-end interfaceImplemented back-end systems using C++/Qt applications for control and logic handling	
Autonomous Mobile Robot Team Leader	Graduation Project 09/2023 - 06/2024
<ul style="list-style-type: none">Developed an indoor mobile robot (Tortabot) equipped with mecanum wheels for omnidirectional movementUtilized Robot Operating System (ROS) for system integration, real-time control, and Simulation using GazeboImplemented a localization and navigation system using SLAM techniquesLed the development of the robot's mechanical design and computer vision pipeline	
Bill Fraud Detection Application Computer Vision Project	Freelancing 02/2024 – 07/2024
<ul style="list-style-type: none">Implemented an object detection model to identify and categorize various types of bill damageIntegrated classical image processing techniques to enhance classification accuracyCollected and annotated a custom dataset from diverse real-world samples	
M.I.A Robotics Alexandria University	Student Activity 10/2021 – 08/2024
<ul style="list-style-type: none">Board Member – 2024: Contributed to strategic planning, mentoring, and high-level decision-makingTraining Program Head – 2023/2024: Designed and led technical training programs for new membersROV AUV Team Member – 2023-2024: Participated in building multiple Remotely Operated and Autonomous Underwater Vehicles from scratch and competing in MATE ROV and ARC competitionsABU Robocon – 2022-2024: Contributed to the design and development of six robots over three consecutive seasons, representing Egypt in all international editions of the competitionComputer Vision Team Leader – 2023: Led the development of vision-based solutions for ROV and Ground robotsNOAA AI Competition – 2023 : Developed an AI model to detect and classify underwater species; awarded 1st place internationallyComputer Vision & Hardware Member – 2022: Worked on real-time perception systems and hardware integration	

EDUCATION

Alexandria University B.Sc., Communication and Electronics Engineering – CGPA: 3.44	Alexandria, Egypt 2024
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TECHNICAL SKILLS

<ul style="list-style-type: none">Machine LearningNLPComputer VisionData Analysis	<ul style="list-style-type: none">LinuxEmbedded SystemsAutonomous SystemsRobotics Skills	<ul style="list-style-type: none">PCB DesignAgile Project Management
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