

ElSayed Abdelkader ElShikh

Robotics Software Engineer

Dedicated roboticist with a passion for technology. From hobby to lifelong commitment, I design, craft, and program robots. Comprehensive grasp of robotics, hands-on experience. Excited about Artificial Intelligence and Classical Robotics intersection. Eager learner, constantly pushing innovation boundaries.



Cairo, Egypt



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upwork.com/freelancers/sayedelsheikh



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EDUCATION

BSc Mechanical Engineering, Power Department

Tanta University, Faculty of Engineering

09/2015 – 06/2021

Graduation Project

Excellent (199/200)

Led the design, manufacturing and programming of an Autonomous Mobile Robot tailored for sanitization using Ultra-Violet rays which funded by ASRT.

WORK EXPERIENCE

Robotics Software Engineer

Upwork

Top Rated, Freelancer

02/2022 – Present

Achievements

- Contributed to a range of robotics projects worldwide.
- Designed and programmed mobile robots for agricultural applications, such as automating lawn mowing and plant watering robots.
- Executed diverse deep learning tasks, including Image Classification, Time-Series Forecasting, Sentiment Analysis, and object detection, utilizing PyTorch and Tensorboard with CNN, RNN, LSTM, and SSD.
- Deployed different models on AI edge devices with streamlit and flask for user-friendly web applications.

Robotics Software Engineer

Promwad

Remote

05/2022 – 10/2022

Achievements, video demo, Project Report

- Developed visual inspection ROS node using YOLOv5.
- Implemented SMACH's finite-state machine container for seamless sensors & actuators coordination.

Heavy Equipment Intern

United Company

ElSalam, Egypt

08/2021 – 12/2021

Achievements

- Troubleshoot various machines powered by Hydraulics.
- Fueled by a passion for programming, chose to evolve into a Robotics Engineer for a dynamic intersection of design and technology exploration.

Heavy Equipment Intern

Irfan Allam Company

Sharjah, UAE

07/2020 – 10/2020

Achievements

- Disassembled wheel loaders, bulldozers and Collaborated with a diverse team, gaining insights into different cultures and backgrounds.

Heavy Equipment Intern

AlJasoor Company

Ajman, UAE

07/2019 – 10/2019

Achievements

- Gained hands-on experience with hydraulic systems beyond circuit diagrams.

Oil and Gas Intern

Petrogulf Misr

Hurghada, Egypt

07/2018 – 09/2018

Achievements

- Gained comprehensive insights & Witnessed drilling operations and examined hydraulic systems behind it.

SKILLS

C++

Python

ROS/ROS2

Nvidia Isaac SIM

PyTorch

OpenCV

Open3D

Docker

Git

Bash

Ignition/Gazebo

TensorFlow/ Keras

SELECTED PROJECTS

- Drone Flocking Algorithm (Academic Research)
- 3D Point Cloud Registration
- Indoor 4WD Mobile Robot Navigation
- Outdoor 4WS Lawn mower Navigation
- Mobile Robot Navigation with Reinforcement Learning

VOLUNTEERING

- Headed the Robotics Division (MEC), leading, inspiring team members, and shared passion for robotics.
- Conducted sessions on classical robotics, control theory, and workshops on ROS, Arduino, and C++ programming.