Abdalla Rashed

Machine Learning Engineer

Backend developer for machine learning & computer vision applications with a background in Electrical Engineering. I possess high analytical and programming skills and I am seeking to grow my experience in AI research & development.

Experience

APR 2023

Project Engineer

Esterline Project Management Services

- Business development

FEB 2023

Lockheed Martin CISS, UAE (Contractor)

- R&D for automated FOD detection in engine bay of aircrafts.

SEP 2022

- Workshops & mentorship support.

JUN 2022

Artificial Intelligence Intern

Lockheed Martin CISS, UAE

- R&D for an AI aircraft inspection program.

MAR 2021

- Presentations to executives & VIP guests.

AUG 2020

Electrical Engineering Intern

Abu Dhabi University, UAE

- R&D for social-distance monitoring, vehicles detection, lane detection & behavior cloning projects.

JUN 2020

- Self-Driving Course Material:
  - Preparing lab manuals
  - Preparing project kits

Education

SEP 2020

B.Sc. In Electrical Engineering

Abu Dhabi University, UAE

SEP 2016

- Summa Cum Laude with 3.99/4.00 CGPA.

Personal Info

- Sharjah, UAE
- +971 52 124 0215
- r.abdalla.1195@gmail.com
- github.com/r-evaar
- r-evaar.github.io/profile
- Golden Visa

Software and Programming

Python
PyTorch, NumPy, Pandas, OpenCV, Tkinter, Selenium, Flask

MATLAB
Deep Learning & Data Acquisition Toolboxes, App Designer

C++
STL

Web
HTML, CSS, Bootstrap

Version Control
Git, GitHub, & GitLab

Skills

Machine Learning Experience
- CNN Classification & Regression
- Object Detection
- Motion Detection & Tracking
- Anomaly Detection & Self-Supervised Learning
- Basics of Online Learning

Agile Software Development Life Cycle

3D Design & Printing
- Autodesk Inventor

Embedded Systems Programming
- Arduino & Raspberry Pi
- Nvidia Jetson SOM

ROS Basics

Electrical Circuits Design

Professional Writing & Presentation in LaTeX & MS Office

Other Projects

APR 2021

OCT 2020

AI-Powered Autonomous Robot for Pit and Flue Wall Health Condition Assessment

Emirates Global Aluminium, UAE

- Worked on building an AI-Powered drone for monitoring the operating conditions of aluminum anode baking furnace.
- Developed a framework for pit detection, visualization, & post-processing.
- Worked on an UWB indoor positioning system.

JUL 2020

SEP 2019

Smart Shopping Cart for People of Determination

Abu Dhabi University, UAE

- Developed a smart shopping solution to assist wheelchair users.
- Design involved: robotic arm for griping items, automatic barcode detection and scanning system, cart items detection & validation, and a shopping user interface.

MAR 2020

OCT 2019

Autonomous Robot for Temperature Abnormalities Detection

Emirates Global Aluminium, UAE

- Worked on an AI robot for detecting temperature abnormalities at aluminum smelters.
- Developed an autonomous driving framework for the robot.
- Provided and designed a solution for electromagnetic field interference, enabling the robot to properly operate at site.

Awards

APR 2021

First Place in 3rd EGA Industrial Robotics Competition
Emirates Global Aluminium, UAE

JUN 2020

First Place in 3rd Annual ECE Design Project Competition - Judges' Choice
Abu Dhabi University, UAE

MAR 2020

First Place in 2nd EGA Industrial Robotics Competition
Emirates Global Aluminium, UAE

2017-2020

Certificate of Excellence, Certificate of Honor Student
Abu Dhabi University, UAE

Other Activities

Dubai Maker Fair Exhibition
26th-28th Feb 2019

ADDA - Hackathon
17th-19th Nov 2019

Languages

Arabic, Native Speaker

English, Fluent