Abdalla Rashed

Machine Learning Engineer

Python Developer specializing in Machine Learning & Computer Vision applications, with a background in Electrical Engineering. I possess high analytical and programming skills and seek to grow my experience in AI research & development.

Experience

APR 2023

Project Engineer

Esterline Project Management Services, Lockheed Martin CISS (Contractor)

- Research & Development for an automated Foreign Object Debris (FOD) detection system for aircraft engine bays.
- Workshops & mentorship support.

SEP 2022

Technology strategy consulting.

JUN 2022

Artificial Intelligence Intern

Lockheed Martin CISS

- Research & Development for an AI aircraft inspection program.
- · Showcasing project progress, results, and future strategies to executives & VIP guests.

MAR 2021

AUG 2020

Electrical Engineering Intern

Abu Dhabi University

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

JUN 2020

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

Education

SEP 2020

SEP 2016

B.Sc. In Electrical Engineering

Abu Dhabi University

Summa Cum Laude with 3.99/4.00 CGPA.

Personal Info

≟ Sharjah, UAE

Golden Visa

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+971 52 124 0215

r-evaar.github.io/profile github.com/r-evaar

Software and Programming

Python

PyTorch, Hugging Face, NumPy, Pandas, Flask, OpenCV, Tkinter,

Selenium

SQL

PostgreSQL

Version Control Git, GitHub, & GitLab MATLAB

Deep Learning & Data Acquisition Toolboxes, App Designer

Web

HTML, CSS, Bootstrap

C++ STL

Publications

MAR 2023 https://doi.org/10.1016/j.engappai

.2023.106143

Skills

Applied ML Experience

- Vision Transformers
- CNN Classification & Regression
- Object Detection
- **Motion Detection & Tracking**
- Anomaly Detection & Self-Supervised Learning
- Continual Learning

Additional ML Knowledge & Interests

- **RNNs & Transformers for NLP Tasks**
- Multimodal Alignment
- Diffusion Models

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	AI-Powered Autonomous Robot for Pit and Flue Wall Health Condition Assessment	
OCT 2020	Emirates Global Aluminium	
	 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	Smart Shopping Cart for People of Determination	
	Abu Dhabi University	
SEP 2019	 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	Autonomous Robot for Temperature Abnormalities Detection	
	Emirates Global Aluminium	
OCT 2019	 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 3 rd EGA Industrial Robotics Competition
	Emirates Global Aluminium
JUN 2020	First Place in 3 rd Annual ECE Design Project Competition - Judges' Choice
	Abu Dhabi University
MAR 2020	First Place in 2 nd EGA Industrial Robotics Competition
	Emirates Global Aluminium
2017-2020	Certificate of Excellence, Certificate of Honor Student
	Abu Dhabi University

Other Activities

Dubai Maker Fair Exhibition 26th-28th Feb 2019

ADDA - Hackathon 17th-19th Nov 2019

Languages

Arabic, Native Speaker

English, Fluent