

Abdalla Rashed

Computer Vision 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.
 - Technology strategy consulting.
- SEP 2022**
- 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.
 - Self-Driving Course Material: Preparing lab manuals and project kits
- JUN 2020**

Education

- SEP 2020** **B.Sc. In Electrical Engineering**
Abu Dhabi University
- SEP 2016** • Summa Cum Laude with 3.99/4.00 CGPA.

Personal Info

-  [Sharjah, UAE](#)
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-  r.abdalla.1195@gmail.com
-  github.com/r-evaar
-  r-evaar.github.io/profile
-  **Golden Visa**

Software and Programming

- | | |
|---|---|
| Python
PyTorch, NumPy, Pandas, Flask, OpenCV, Tkinter, Selenium | C++
STL |
| MATLAB
Deep Learning & Data Acquisition Toolboxes, App Designer | Web
HTML, CSS, Bootstrap |
| | Version Control
Git, GitHub, & GitLab |

Skills

Applied ML Experience

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

Additional ML Knowledge

- **RNNs, Transformers for NLP Tasks, Multimodal Learning / Alignment**

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 <i>Emirates Global Aluminium</i> <ul style="list-style-type: none">• 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 <i>Abu Dhabi University</i> <ul style="list-style-type: none">• Developed a smart shopping solution to assist wheelchair users.• Design involved: robotic arm for gripping 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 <i>Emirates Global Aluminium</i> <ul style="list-style-type: none">• 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 <i>Emirates Global Aluminium</i>
JUN 2020	First Place in 3rd Annual ECE Design Project Competition - Judges' Choice <i>Abu Dhabi University</i>
MAR 2020	First Place in 2nd EGA Industrial Robotics Competition <i>Emirates Global Aluminium</i>
2017-2020	Certificate of Excellence, Certificate of Honor Student <i>Abu Dhabi University</i>

Other Activities

Dubai Maker Fair Exhibition
26th-28th Feb 2019

ADDA – Hackathon
17th-19th Nov 2019

Languages

Arabic, Native Speaker
English, Fluent