

# 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

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-  [r-evaar.github.io/profile](https://r-evaar.github.io/profile)
-  **Golden Visa**

## Software and Programming

### Python

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

### 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**
- **Continual 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	AI-Powered Autonomous Robot for Pit and Flue Wall Health Condition Assessment
OCT 2020	<i>Emirates Global Aluminium</i> <ul style="list-style-type: none"><li>• Worked on building an AI-Powered drone for monitoring the operating conditions of aluminum anode baking furnace.</li><li>• Developed a framework for pit detection, visualization, &amp; post-processing.</li><li>• Worked on an UWB indoor positioning system.</li></ul>
JUL 2020	Smart Shopping Cart for People of Determination
SEP 2019	<i>Abu Dhabi University</i> <ul style="list-style-type: none"><li>• Developed a smart shopping solution to assist wheelchair users.</li><li>• Design involved: robotic arm for gripping items, automatic barcode detection and scanning system, cart items detection &amp; validation, and a shopping user interface.</li></ul>
MAR 2020	Autonomous Robot for Temperature Abnormalities Detection
OCT 2019	<i>Emirates Global Aluminium</i> <ul style="list-style-type: none"><li>• Worked on an AI robot for detecting temperature abnormalities at aluminum smelters.</li><li>• Developed an autonomous driving framework for the robot.</li><li>• Provided and designed a solution for electromagnetic field interference, enabling the robot to properly operate at site.</li></ul>

## Awards

APR 2021	First Place in 3 <sup>rd</sup> EGA Industrial Robotics Competition <i>Emirates Global Aluminium</i>
JUN 2020	First Place in 3 <sup>rd</sup> Annual ECE Design Project Competition - Judges' Choice <i>Abu Dhabi University</i>
MAR 2020	First Place in 2 <sup>nd</sup> 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