

# 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), UAE*
  - Research & Development for an automated Foreign Object Debris (FOD) detection system for aircraft engine bays.
- SEP 2022

- Workshops & mentorship support.
  - Technology strategy consulting.
- JUN 2022

**Artificial Intelligence Intern**  
*Lockheed Martin CISS, UAE*
  - 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, UAE*
  - 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, UAE*
- SEP 2016

- Summa Cum Laude with 3.99/4.00 CGPA.

## Personal Info

-  [Sharjah, UAE](#)
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-  [github.com/r-evaar](https://github.com/r-evaar)
-  [r-evaar.github.io/profile](https://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	<b>AI-Powered Autonomous Robot for Pit and Flue Wall Health Condition Assessment</b> <i>Emirates Global Aluminium, UAE</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   SEP 2019	<b>Smart Shopping Cart for People of Determination</b> <i>Abu Dhabi University, UAE</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   OCT 2019	<b>Autonomous Robot for Temperature Abnormalities Detection</b> <i>Emirates Global Aluminium, UAE</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	<b>First Place in 3<sup>rd</sup> EGA Industrial Robotics Competition</b> <i>Emirates Global Aluminium, UAE</i>
JUN 2020	<b>First Place in 3<sup>rd</sup> Annual ECE Design Project Competition - Judges' Choice</b> <i>Abu Dhabi University, UAE</i>
MAR 2020	<b>First Place in 2<sup>nd</sup> EGA Industrial Robotics Competition</b> <i>Emirates Global Aluminium, UAE</i>
2017-2020	<b>Certificate of Excellence, Certificate of Honor Student</b> <i>Abu Dhabi University, UAE</i>

## Other Activities

Dubai Maker Fair Exhibition  
26th-28th Feb 2019

ADDA – Hackathon  
17th-19th Nov 2019

## Languages

Arabic, Native Speaker  
English, Fluent