

## Contact

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[abdohisham12.github.io/](https://abdohisham12.github.io/) (Portfolio)

## Top Skills

Web Applications

Space Design

Space Debris Retrieval and Removal

## Languages

French (Elementary)

Arabic (Native or Bilingual)

English (Professional Working)

## Certifications

AWS Educate Machine Learning  
Foundations

SQL for developers

Introducing Generative AI with AWS

Microsoft Certified: Azure AI  
Fundamentals

Introduction to GIS Mapping

# Abdulrahman Hisham

Automating Space mission analysis & Design | AI Engineer @  
AQMAAR.space | AI Coding Trainer @ Invisible Technologies Inc  
Cairo, Cairo, Egypt

## Summary

From my early fascination with satellites and orbits to graduating in Navigation Science and Space Technology (Class of 2025, CGPA 3.69), Abdulrahman has always been focused on one goal: making space exploration smarter and more efficient.

Now, as a Space Mission Engineer at Aqmaar, Abdulrahman focuses on integrating artificial intelligence with aerospace engineering to automate mission design, improve reliability, and reduce time and complexity in space projects.

Currently, I'm seeking MSc opportunities in Aerospace or AI to continue advancing the intersection between these two fields and contribute to the next era of intelligent space systems.

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## Experience

### AQMAAR

Artificial Intelligence Engineer

July 2025 - Present (5 months)

Qesm 1st 6 October, Al Jizah, Egypt

Providing AI-based solutions to ease the space mission analysis and design process

Review different space mission concepts over their cost & performance

Translate customer mission objectives into technical requirements & system specifications for planning & design teams.

### Invisible Technologies

AI Coding Trainer

May 2025 - Present (7 months)

United States

Contributing to the development of multilingual AI educational systems by evaluating, refining, and generating High-quality Python, SQL, and C++ codes in French.

Simulating both learner and instructor roles to enhance model reasoning, explanation quality, and instructional clarity.

Assessed AI-generated responses in STEM topics (Mathematics, Statistics, Probability) for scientific accuracy and logical alignment. Supported prompt engineering through detailed feedback, content revision, and scenario generation. Leveraged academic background and science communication skills to help shape AI models into reliable educational tools.

## EgSA-Egyptian Space Agency

### Winter Trainee

January 2025 - January 2025 (1 month)

Cairo, Egypt

#### Hardware Training (3 Days):

PCB Design – Designed and simulated power circuits using Altium Designer.

Circuit Analysis – Simulated power subsystems using LTspice.

Component Selection – Researched and analyzed components using Texas Instruments & SnapEDA.

#### Software Training (1 Day):

Embedded Systems Programming – Developed and tested C/C++ code.

Panda Board Deployment – Ran and debugged software on a Panda Board for real-world application Though STM32.

#### EgSA Lab Visit (1 Day):

Hands-on Exposure – Explored real-world satellite labs, observing testing, validation, and system operations.

## Scale AI

### AI Coding Evaluator

September 2024 - November 2024 (3 months)

Remote

As a Freelance Software Engineer at Outlier.ai, I contribute to training generative AI models by evaluating and improving code generated by these systems. My role involves crafting and answering questions related to computer science concepts, as well as reviewing AI-generated solutions to ensure accuracy and adherence to best practices.

Key responsibilities:

Collaborate with AI models by providing feedback and ranking code in languages like Python, MYSQL, and C++

Digital Egypt Pioneers Initiative - DEPI

Machine Learning Engineer

April 2024 - October 2024 (7 months)

Qesm 2nd New Cairo, Cairo, Egypt

EgSA-Egyptian Space Agency

Summer Trainee

August 2024 - August 2024 (1 month)

New Cairo, Cairo, Egypt

a 2 weeks intensive training divided into 2 parts

1st week

theoretical training including space environment, space weather , and atmosphere analysis

2nd week

practical application of what we learned

a deep learning model to predict the ionospheric disturbance on time using GNSS data and omni data

TELUS International AI Data Solutions

Search Engine Optimization Specialist

March 2024 - July 2024 (5 months)

Cairo, Cairo, Egypt

Evaluated the quality and relevance of web pages through Page Quality (PQ) guidelines, according to purpose, authoritativeness, and trustworthiness.

Applied Needs Met (NM) criteria to ensure search results aligned with user intent, delivering relevant content for different queries.

Conducted side-by-side evaluations of competing search results to determine which best met user expectations.

Analyzed and compared map search results for accuracy and relevance to user queries.

EgSA-Egyptian Space Agency

Winter Trainee

January 2024 - January 2024 (1 month)

Cairo, Egypt

different satellite subsystems including power, command and data handling (OBC), communication, payload. attitude determination and control system(ADCS), structure and environment subsystem also integration of different subsystems through space keys educational satellite

**NRIAG- National Research Institute of Astronomy and Geophysics**  
**Summer Trainee**  
September 2023 - September 2023 (1 month)  
Helwan, Cairo, Egypt

**Egyptian Petrochemicals Holding Company: EICHEM**  
**Summer Intern**  
August 2023 - August 2023 (1 month)  
New Cairo, Cairo, Egypt

The internship program covered a range of topics, including an overview of petrochemical industry history, current challenges, future trends, and environmental impacts. Additionally, I learned extensively about different companies under Echem, their products and services, and the structure of the petrochemical industry.

**EGYPTAIR TRAINING ACADEMY**  
**Summer Intern**  
August 2023 - August 2023 (1 month)  
Cairo, Egypt

what we have learned

creating a VPN tunnel between two computers using Hyper and understanding its significance in ensuring secure and private communication.

Additionally, we had the privilege of visiting Egyair Data Center.

creating a telephone service that transfers voice over IP. We got to implement two telephone services - a local server-based system and an international one using VPN service we created

simulations for security using Pnet lab.

visiting the Integrated Operating Command Control Building, where we learned about flight navigation using Jeppesen and communication between planes and countries using SITA.

Doss cafe

Cashier

June 2021 - October 2021 (5 months)

New Cairo, Cairo, Egypt

Sumo sushi

Head Waiter

June 2019 - September 2019 (4 months)

New Cairo, Cairo, Egypt

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## Education

Beni-Suef University

Bachelor of Applied Science - BASc, Aerospace, Aeronautical and  
Astronautical/Space Engineering · (2020 - 2025)