

## Contact

Egypt new cairo first settlement north  
youth building n 95 app 4  
01503347799 (Mobile)  
abdohero707@gmail.com

[www.linkedin.com/in/abdulrahman-hisham](https://www.linkedin.com/in/abdulrahman-hisham) (LinkedIn)  
[abdochisham12.github.io/](https://abdochisham12.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.

## 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: ECHEM**  
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)