

Mohamed Mostafa Mohamed Elattar

Dokki, Giza, Egypt | (+20)1017874579 | mohamed.elattar01@gmail.com

Summary

A highly motivated graduate with a bachelor's degree in Navigation Science and Space Technology, specializing in applied space technology. Experienced in astronomy education, project management, and international scientific collaborations. As a representative for Egypt in Pan-Africa and an IAAC Ambassador, I actively promote astronomy education and participation in global competitions. Published researcher in double star studies. Additionally, I have foundational knowledge in embedded systems and a passion for advancing science and technology through research and education.

Education

Faculty of navigation science and space technology, Egypt

2019-2024

Bachelor of Science

Major: Applied space technology

Graduation Project: Developed a magnetic levitation system integrating Arduino and Hall effect sensors, focusing on control systems and practical applications of electromagnetism.

- GPA:3.84
-

Working Experience

Researcher, Double Star Detection Project with Pan Africa || 2024

- Conducted a study on double stars using advanced astronomical techniques.
- Collaborated with Pan Africa to produce significant findings, contributing to the global astronomical community.
- Paper submitted in the double star journal

Official representative for EGYPT in Pan-Africa || 01. 2024 To present

- Actively encouraging Egyptian students to partake in international astronomy activities, fostering global collaboration and elevating Egypt's presence in the astronomical community.
- Providing unwavering support to students across Africa, empowering them with the necessary skills and knowledge in astronomy, thereby contributing to the enhancement of astronomical education on the continent.
- Facilitating the development of astronomy in Africa by engaging with students, educators, and institutions to catalyze research, infrastructure, and expertise, contributing to the continent's growth in the field.

Head of Astronomy Department, IEEE Beni-Suef Student Branch || 04.2023 to Present

- Delivered lectures on space environment and solar activities, equipping students with knowledge on solar physics and its effects on space weather.
- Led workshops and practical sessions using tools like Stellarium and MATLAB for data analysis and astronomy research.

Official IAAC AMBASSADOR || 03.2023 To present

- Encourage students to learn astronomy.
- Sharing the understanding of astronomy in Egypt.
- Encourage students to participate in scientific competitions and assist them.

Astronomer teacher (Workshop), Bareeq || 06.2021 To present

- Provided varied instruction styles for diverse learning modalities. Ability to create slides and materials from raw materials suitable for kids, teenagers, and adults.
- Conducted activities in each workshop tailored to the topic, including explaining the space environment and the interaction between the Sun and Earth.
- Taught classes to students at varying levels of attainment, utilizing visual, auditory, and hands-on activities to enhance understanding.

Volunteer Work

Project Manager, Enactus New Beni-Suef | 10.2022 To 6.2024

- Applied project management techniques to deliver projects within budgetary and time constraints.

- Led the development of a BMC project, recycling chicken feathers into fireproof materials.
- Collaborated with team members to identify capacity needs for project success and sustainable solutions

Writer, Steam astronomy club | Cairo, Egypt|| 07.2022 To present

- Translated complex technical content into an easily understood and engaging copy.
- Helping the team and people to learn more about astronomy.
- Organized documents working with raw content from subject matter experts and resources.

Courses and Certificates

South Asian Astrophysics Summer School (SAASS)

- Gained hands-on experience with **SunPy** and **pyspread** for solar data analysis
- Analyzed AIA and HMI data from SDO to study active regions and coronal holes

Fourth Advanced Arab Astrophysics School (ASAAS) | 18–24 October 2024

- Presented double star research and engaged with leading experts in the field

Egyptian Space Agency Training Program 09.09.2024 – 18.09.2024

Successfully completed a comprehensive training program that included:

- Introduction to Space Technology: Covered essential satellite subsystems, the space environment, and how factors like solar activity affect satellite missions.
- Hands-On Satellite Operations: Practical experience in real-time satellite control, including communication with satellites and mission scenario simulations in the Space Key Lab, with a focus on mitigating environmental challenges in space.

International Astronomical Search Collaboration || 08.09.2023 - 04.10.2023

- I received a certificate in recognition of valuable contributions to observations of near-Earth objects and Main Belt asteroids by participating in the analysis of images from pan-STARRS

Administration of the Egyptian Japanese University of Science and Technology || 20.9.2022-22.9.2022

- I received a certificate in appreciation for my participation in SERL-training at the Space Environment Research Laboratory at the Egyptian Japanese University of Science and Technology.

MathWorks || 16.11.2022

- I received a certificate in recognition of completing a self-paced training course on Simulink Onramp and Matlab Onramp

International AI Driving License (IAIDL) || 11.08.2021

- I received a certificate of appreciation for passing the basic level of the certificate requirements

Information is Equal To Life Campaign || 01.07.2022

- I received a certificate of appreciation for my participation in the activities of First Aid and Cardiopulmonary Resuscitation courses.

Enactus

- I received a certificate in recognition of my passion, dedication and commitment to using the power of entrepreneurial action for others to create a better world for us all

(TICO) Office of the Egyptian Space Agency

- I received a certificate in recognition of my participation in the Summer Space

Camp Coca-Cola HBC Egypt

- I got this for successfully completing youth empowerment courses

IEEE New Beni-Suef best head certificate

For the best head of Astronomy committee for the month of April for Season 2024 in recognition of their excellent in 9/5/2024

Competitions

Polaris Egyptian Youth Competition|| 2024

- Achieved 3rd place, demonstrating exceptional knowledge and skills in astronomy.

International Astronomy and Astrophysics Competition (National Award) || 8.07.2024

- Received the Gold Honor for the second time in a row.

- Achieved full scores in the finals, marking outstanding performance.

International Astronomy and Astrophysics Competition (National Award) || 26.06.2023

- I received a certificate in recognition of my Gold Honor in the International Astronomy and Astrophysics Competition and I won a National Award and was honored as the best participant in Egypt

Skills

- Hard worker
- Tutoring
- Intermediate C programming language
- Basic Embedded system
- Swimmer
- Basic Microsoft
- Reading
- Working under pressure
- Working in teams
- Social person
- Driving
- Basic MATLAB

Languages:

Arabic: Native

English: Excellent

French: Basic

Spanish: Very Basic

Contact me

Phone number: +201017874579

Email address: mohamed.elattar01@gmail.com

LinkedIn account: <https://www.linkedin.com/in/mohamed-elattar-6a5052255/>

Facebook account: <https://www.facebook.com/mohamed.elattar.9803>