

## Ayman Ahmed Salem

**Address:** 7 Ahmed Tyseer street, Heliopolis, Cairo, Egypt

**Phone:** +201005036977 - **Email:** [ayman.salem@remote-sensing-portal.com](mailto:ayman.salem@remote-sensing-portal.com)

**Date of birth:** 3<sup>rd</sup> April 1969 - **Nationality:** Egyptian



LinkedIn link Account from [here](#).



YouTube Channel from [here](#).



### PERSONAL PROFILE:

- **Capacity Building Programs' provider** to the **United Nations WFP**, Las Vegas Valley Water District, Arab Academy for Science, Technology & Maritime Transport and others (check a sample at [this link](#)).
- Studied 2 MSc. degrees at [University College London "UCL"/Imperial College London] & Ain-Shams University Cairo.
- **LMS Provider & Developer** of the Global Online Education Platform of the **Egyptian Space Agency, EgSA Space Technology Portal**. It includes [testing, secure certification, support, distributors, visitors' analysis & others].
- **Developing Education Partner** of Hexagon Geospatial USA Company (Currently Hexagon SIG). Check [my page](#) on Hexagon's website, and [Hexagon's review](#) about my Global Education activities/Capacity building programs. (Hexagon is a global leader in sensors, Geospatial software, autonomous solutions, safety and infrastructure).
- **Founder and Executive Director** of [Brilliant Remote Sensing Labs](#) "BRS-Labs" Company, a global online education developer, with a focus on academic/research organizations, K12 education, Space and Remote Sensing.
- **Founder** of the [Remote Sensing Portal](#); a global education, testing and certification platform for Remote Sensing & Satellite Image Processing. It has around **1.5 million** page visits per year and **30K** new unique visitors from the niche market of the Remote Sensing, Satellite Image Processing, and Geospatial communities.
- **Developer** of a [university curriculum](#) and [16 online courses](#) in Remote Sensing & Satellite Image Processing. Check my list of all [Educational Products](#), and my list of [Brochures](#).
- **Developer** of BRS-Labs' Online Education Standard, [Learning Management System "LMS"](#), [Certified Online Courses Developer Course](#) (an instructional designer course) and [Certified Online Courses Developer Organization Certificate](#).
- **Trained** more than **1,130 international students** from 116 countries on Remote Sensing & Space Science and conducted more than **1000 online practical exams** through the Remote Sensing Portal testing system. All exams are monitored by webcams in real time, supervised by an exam board, recorded & archived since 2017.
- **Founder** of a K12 Education and Testing platform titled "[K12 Space Science & Satellites Academy](#)" for schools.
- **Developer** of a [STEM Curriculum](#) and capacity building [School Program](#) in Space & Geospatial Technology, provided to middle & high schools from [Eastern Europe](#) as Extra-curricular activities, from [Egypt](#) as a STEM Program, and from [Bahrain](#) as summer courses. Check [Hexagon's review](#) about my K12 program.
- Provider of Certified Space & Satellite Technology School Certificate to schools, check [IVY International School sample](#).
- [Sustaining Member](#) to the International Society of Photogrammetry and Remote Sensing ISPRS since 2017.
- Provider of a set of short **workshops** related to Geospatial Careers, and applications of satellite images in Environment, Geology, Agriculture, Surveying, Oceanography and Fishery. The workshops are listed at [this link](#).
- Endeavors with higher Education: [Arab Academy for Science, Technology & Maritime Transport - Yarmouk University](#)
- **Topics of my 2 master's degrees:** 1: "Remote Sensing" from UCL, London in collaboration with Imperial College, London – 2: "Orbit Design and Simulation of Remote Sensing Satellites" from Ain Shams University, Cairo, Egypt.
- Published a paper in the American Journal of Applied Sciences related to Satellite Orbital Mechanics & Orbit Design.
- Applied Experience since 1994, in subjects related to Space Science, Remote Sensing, and satellite image processing. Designed, supervised, and contributed to many training courses and projects in these fields.
- Retired Colonel Computer Engineer, Remote Sensing Specialist, then Manager of a Satellite Image Processing Section at a research department, in the Egyptian Army (1994 to 2014).
- **Authorized Trainer** of ERDAS Imagine Remote Sensing software since June 2001 from ERDAS Inc. USA.
- Experience in research, teaching, global education, testing, certification, reputation management & digital presence.
- Designed, supervised, and contributed to many software programming projects.

### EDUCATION AWARDS:

1. "[Education Extravaganza 2021 Contest Winner](#)" First winner among international organizations by Hexagon, USA.
2. "[Leading Expert in Remote Sensing & Satellite Image Processing 2020 Award for Excellence in Global Geospatial Education](#)" by MEA Markets Awards, AI Global Media Ltd.
3. [Best Remote Sensing Education & Testing Portal 2022](#) by corporate vision, UK.
4. "[Leading Expert in Global Scientific Reputation Management 2021](#)" by MEA Markets Awards.

## **EMPLOYMENT**

2015 – Now                      **Brilliant Remote Sensing Labs**, Founder and Executive Director.  
1994 - 2014                    **Egyptian Army, Research Department**, Manager of a Satellite Image Processing Section.  
1993 - 1994                    **Egyptian Army, Computer Department**, database specialist with Oracle DBMA System.

## **EDUCATION AND QUALIFICATIONS**

2007 – 2008            **University College London**                      MSc. Remote Sensing, supervised by Prof. Ian Dowman  
2000 - 2004            **Ain Shams University, Cairo, Egypt**  
MSc. Computer & Systems Engineering, supervised by Prof. Dr Abd El-Moneim Wahdan, Prof. Dr. M Zaki. **Thesis Title:** Orbits Calculations & Design for Remote Sensing Satellites.  
2001                      **ERDAS Education Services, ERDAS Inc. USA.**  
Authorized instructor of Fundamentals and Advancing of ERDAS Imagine Remote Sensing software.  
1987 – 1992            **Military Technical College**  
BSc. Electrical Engineering, Computer Science.  
**Final Project Title:** Design and Implementation of an Electronic Circuit for Traffic Control, with Voice Recognition Facility for Emergency Vehicles.

## **PUBLICATIONS**

- Research paper titled "**Remote Sensing Applications in Oceanography & Fishery**" Presented in the "Coast To Ocean Priority Actions and Investment 2019" conference, February 2019, Alexandria, Egypt.
- Research paper titled "**Object Oriented Tool for Satellite Orbit Design**" published in the American Journal of Applied Sciences, volume 2, number 4, 2005, paper number 806-818.

## **SKILLS**

**Global Online Education Development & Global Reputation Management**, especially for scientific & educational organizations.

**Research Skills:** Working in a research department from 1994 to 2010 provided me with a wide research ability, flexibility, and easy adaptation with research requirements.

**Management Skills:** Working as a Founder & Executive Director of BRS-Labs, project manager for several Remote sensing and research projects, in addition of studying Project Management at University College London, and having 2 days MBA course from Brian Tracy International Inc. provided me with lots of management skills including [planning, scheduling, allocating resources, Risk Analysis, Performance Evaluation].

### **Remote Sensing, satellite Image Processing, and Computing Skills:**

- **Remote Sensing Software Packages:** Very good usage of ERDAS Imagine Remote Sensing Software, in addition to a previous knowledge about the following Geospatial software [ER Mapper, "Cyclone" for Terrestrial Laser Scanning, ENVI, Socket Set, "Terra Solid" (LiDAR data processing)].
- **Remote Sensing Operations:** Performing most Remote Sensing operations, such as [image importing and conversion, Image Enhancement, Geometric Correction, Supervised and Unsupervised Classification, Image Analysis and Interpretation, Shadow Analysis, Annotation and Vector layers creation, Mapping, Digital Terrain Model Generation, Visible/near-IR spectral operations, and 3D visualization using ERDAS Virtual GIS].
- **Programming:**
  - Previous knowledge of [Delphi, IDL, ERDAS Model Maker, ERDAS Macro Language "EML", SQL], little knowledge with C# and Java.
  - Designed, supervised, and contributed to many software programming projects in the fields of [Remote Sensing, Orbital Mechanics, Terramechanics, Navigation, Astronomy].

**Orbital Mechanics Skills:** Good knowledge of satellite orbit design, and orbit analysis.

### **Teaching and Presentation Skills**

- Good teaching ability for [Remote Sensing, Orbital Mechanics, & Space Science topics] in several institutes.
- Leading several capacity building programs, seminars, presentations, and tutorials with organizations, such as the [Arab Academy for Science, Technology & Maritime Transport](#), ([Yarmouk University](#) stopped due to COVID-19), UCL London, Ain Shams University Cairo, and others. Involvement in marking examinations, course works, projects.

**Languages:**      English: Advanced.                      Arabic: Native.