

C.V of

Hany Mohammed Shaaban Elawady

1. Personal Details

Name Hany Mohammed Shaaban Elawady.

Nickname Hany Shaaban.

Date of Birth May 10, 1983.

Martial Status Married.

Sex Male.

Military Status Final exempted.



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Google Scholar: <https://scholar.google.com/citations?hl=en&user=0JuRQD8AAAAJ>

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2. *Work Experience*

- July 2024 – Current Manager of Geophysics Department, Alqotr Company, Riyadh - 13313, KSA
- May 2023 - December 2023 Director of Geophysical Department, First Fix Company, Jeddah 21391, Kingdom of Saudi Arabia (KSA).
- 2018 – till now Assistant Professor at the National Research Institute of Astronomy and Geophysics (NRIAG), Egypt.
- 2016 – 2018 Researcher (Ph.D.) at National Research Institute of Astronomy and Geophysics (NRIAG), Egypt.
- 2012- 2016 Ph.D. Candidate in Saint-Petersburg Mining University, Russia.
- 2009- 2012 Researcher assistant in NRIAG.
- 2005- 2009 Assistant researcher in NRIAG.

3. *Educational Background:*

- **Ph.D. (Doctor) Degree in Geophysics (2016):** Saint-Petersburg Mining University, Saint-Petersburg, Russia; Title - “Application of integrated geophysical methods for studying the geological setting of groundwater aquifers of El-Kharga sedimentary basin in the western desert of Egypt”.
- **Master (M. Sc.) degree in Applied Geophysics (2009):** Geology Department, Geophysics Branch, Faculty of Science, Mansoura University, Egypt; Title - "Applications of the Geophysical Survey for Environmental and Archaeological Purposes, Central Western Part of the Nile Delta, Egypt".
- **Pre-master degree (post-graduate course) in Applied Geophysics (2006):** Geology Department, Geophysics Branch, Faculty of Science, Mansoura University, Egypt.
- **Toefl Preparation course (2006):** American University in Cairo (AUC), Level II
- **B.Sc. of Science in Applied Geophysics (2004):** Geology Department, Geophysics Branch, Faculty of Science, Mansoura University, Egypt.

4. Fields of Interest:

1. Applied Geophysics, using the following techniques:

- Geoelectric resistivity,
- Electromagnetic method (Time and Frequency Domain),
- Ground Penetrating Radar (GPR),
- Seismic method.
- The Magnetotelluric (MT) method,
- Very low frequency (VLF) method,

2. Research Fields of Interest:

- Environmental and applied geophysics.
- Groundwater exploration geophysics
- Engineering and geotechnical geophysics.
- Underground Utility Mapping.
- Archaeological geophysics.
- Hydro-geophysics.
- Geothermal Exploration and Modeling
- Deep exploration geophysics.
- Super shallow geophysical monitoring.
- Experimental geophysics.

3. Geophysical processing and interpretation software:

- Geophysical data processing and interpretation programs for 1-D, 2-D, and 3-D interpretations for Resistivity, GPR, MT, Seismic, and EM methods.
- TEMIX_XL, IX1D, ZOND, and many other programs for Electromagnetic data interpretation.
- Imagem, WingLink, and many other programs for the Magnetotelluric (MT) method.
- Reflex and Radan, Geolitix, GPR Slice software, and many other software for GPR.
- SIP, and other software for seismic data interpretation.
- Very low frequency (VLF) method.
- Different graphics programs.
- Presentation programs.

4. Wide experience to operate different geophysical instruments:

- GGA30, GGA31, RM-16 resistivity scanner, Syscal-R2, and Syscal-Pro for Resistivity methods.

- Sirotek MK-3 Conductivity meter, AIE-2 TDEM instrument, and EM profiler (GEM) for Electromagnetic method.
- Stratagem and other instruments for Magnetotelluric method.
- Land survey magnetometers (proton, cesium), FM36 scanner, and Laboratory magnetometers (Spinning and ovens) for Magnetic method.
- StrataView 48 channel system for seismic acquisition methods.
- SIR 2000, SIR 20B, SIR 3000, and SIR 4000; Ramac and a series of antennas: 1 GHz, 400, 200, and 100 and a multi-frequency antenna (80, 64, 48, 32, and 16 MHz) for GPR.
- MALA easy locator wide range for GPR.
- Wadi instrument for VLF method.

5. *Computer General Skills:*

Disk Operating System (DOS), Microsoft Windows and Microsoft Office (Excel, Word, and PowerPoint) & Internet, and many other graphics programs.

6. *Language Knowledge:*

- Arabic (Mother Tongue).
- English (Very good): Speaking, writing and reading.
- Russian (very good): Speaking, writing and reading.

7. *Training:*

- The General Petroleum Company in Ras-Gharb Area in The Gulf Of Suez Region. Training in the field.
- Mansoura University Training Center- Laboratories of Geology Department; GIS-center.

8. *Teaching Skills:*

- Teaching course in Geophysics (Goelectric methods) for undergraduate students 2nd level in the Geology department, Faculty of Science, Damietta University during the academic year 2020/2021.
- Teaching course in Geophysics (Electromagnetic Methods, Environmental Geophysics, Observatory Geophysics) for undergraduate students 3rd level in the Geology department, Faculty of Science, Damietta University during the academic year 2020/2021.
- Teaching course in Geophysics (Goelectric and Electromagnetic methods) for postgraduate students (Pre-master degree) in the Geology department, Faculty of Science, Damietta University during the academic year 2021/2022.

- Teaching course in Geophysics (Electromagnetic Methods, Environmental Geophysics, Observatory Geophysics) for undergraduate students 3rd level in the Geology department, Faculty of Science, Damietta University during the academic year 2021/2022.

9. *Research Projects:*

- Director of Geophysical Department, First Fix Company, Jeddah 21391, Kingdom of Saudi Arabia (KSA), from May 2023 to December 2023.
- Main Member of Project Title: “Detailed Geophysical study for detecting groundwater resources to drill 61 wells in some places of Najran area”, Kingdom of Saudi Arabia; from July 2017 to November 2017.

دراسة جيوفيزيائية تفصيلية لتحديد موارد (مكامن) المياه لحفر عدد ٦١ بئراً يدوية وأنبوبية في مواقع متفرقة من منطقة نجران بالدرع العربي بالمملكة العربية السعودية. وزارة البيئة والمياه والزراعة السعودية، في الفترة من يوليو ٢٠١٧ إلى نوفمبر ٢٠١٧.

- Member of Project Title: “A Prospective Study on the Geothermal Potential in Egypt” funded by The Science and Technology Development Fund (STDF), Egypt. From March 2021 to February. 2023. (Project ID: 43553).
- Member of Project Title: “Assessment of Geothermal Resources in Farafra Oasis, Egypt” Funded by the Academy of Scientific Research and Technology, Egypt. From August 2017 to August 2019. (Project ID: 1351).
- Member of Project Title: “CSEM Monitoring of the Foundation and Base Ground Stability to Minimize the Catastrophic Impacts on the Community; An Approach to Involve Volume and Control Source Electromagnetic (CSEM); Locality: Quarter 27, 15th May City and other sites”. Funded by the Science and Technology Development Fund in the Egyptian Ministry for Scientific Research. From 19 May 2011 to 18 January 2015. (Project ID: 2989).
- Member of Project Title: “Goelectric (VES+ERT) and electromagnetic (TEM+AMT) studies in Abou Ramad area, Red Sea Province for delineating and assessment groundwater aquifer associated with the old delta, to be exploited in agriculture and sustainable development” Funded by Academy of Egypt. From March 2015 to July 2016.
- Member of Project Title: “Geomagnetic and Goelectric studies for the detection of manganese ore deposits in the province of Abu Zenima” Funded by Science and Technology Development Fund in the Egyptian Ministry for Scientific Research. From 2015 to 2017.

- Member of Project Title: “Construction of the interactive maps of the archeological ruins in the subsurface of the valley of the Golden Mummies VGM, Bahariya Oasis, Egypt”. Funded by Academy of Scientific Research & Technology in Egypt. From 2013 to 2015
- Member of Project Title: “Imaging the geometry of the Kharga Basin, New Valley Oasis and its groundwater Capacity”. Funded by the Academy of Scientific Research & Technology in Egypt. From 2012 to 2015.
- Member of Project Title: “Archaeo-geophysics and excavation at Al-Zayyan Temple, Al-Kharga oasis, NEW Valley, Al-Wadi Al-Jadeed, Egypt”, funded by The Japanese Society for The Promotion of Science (JSPS), from 2005 to 2006.
- Member of Project Title: “Geophysical exploration for archaeology at Shallalat Garden, Alexandria, Egypt” funded by The Hellenic Institute for Alexandria, from 2008 to 2009.
- Member of Project Title: “Geophysical Studies of El-Kefl Dam site, end of depression 4, Toshka, Egypt”, funded by the High Dam Organization; from 2006 to 2007.
- Member of Project Title: “Inspecting the cavities in Wadi Hof, a geophysical study of the cavities undergoing destruction problems Wadi Hof, Helwan, Cairo, Egypt; funded by the Egyptian Military Service; from 2018 to 2019.
- Member of Project Title: “Mapping of the underground at Wadi Hof area to select secure truck passage”; funded by the Egyptian Military Services; from 2019 to 2020.
- Member of Project Title: “Groundwater exploration at Ras El-hekma, Matrouh, Egypt”; funded by National Research Institute of Astronomy and Geophysics (NRIAG), Helwan, Egypt; from March 2008 to September 2008.
- Member of Project Title: “Integrated geophysical studies on El-Giza pyramids plateau on the light of the geotechnical concept”; funded by National Research Institute of Astronomy and Geophysics (NRIAG), Helwan, Egypt; from January 2007 to April 2007.
- Member of Project Title: “Goelectrical and Seismic studies for the construction of new Akhmim City, Sohag Governorate, Egypt”; funded by National Research Institute of Astronomy and Geophysics (NRIAG), Helwan, Egypt; from July 2006 to December 2006.

10. Scientific Publications:

1. Mohamed Abdel Zaher, Abdellatif Younis, [Hany Shaaban](#) and Mahmoud I.I. Mohamaden (2021): Integration of geophysical methods for groundwater exploration: A case study of El Sheikh Marzouq area, Farafra Oasis, Egypt. The Egyptian Journal of Aquatic Research, Volume 47, Issue 2, Pages 239-244.

2. Gad El-Qady, [Hany Shaaban](#), Mohamed Abdel Zaher and Magdy Atya (2021): Integrated electromagnetic survey for groundwater exploration: case study at El-Minya, western desert of Egypt. *NRIAG Journal of Astronomy and Geophysics*, Volume 10, Issue 1, Pages 387-396.
3. G. El-Qady, [H. Shaaban](#), A. El-Said, H. Ghazala and A. El-Shahat (2011): Tracing of the defunct Canopic Nile branch using geoelectrical resistivity data around Itay El-Baroud area, Nile Delta, Egypt. *Journal of Geophysics and Engineering (IOP Publishing)*, Vol. 8, pp. 83-91.
4. Sultan Awad Sultan Araffa, Magdy A. Atya, Adel M.E. Mohamed, Mahmoud Gabala, Mohamed Abdel Zaher, Mamdouh M. Soliman, Hany S. Mesbah, Usama Massoud and [Hany M. Shaaban](#) (2014): Subsurface investigation on Quarter 27 of May 15th city, Cairo, Egypt using electrical resistivity tomography and shallow seismic refraction techniques. *NRIAG Journal of Astronomy and Geophysics*, Volume 3, Issue 2, Pages 170–183.
5. [Shaaban H.](#), El-Qady G., Al-Sayed E., Khozaym A., Al-Emam A. and Ghazala H. (2014): Archaeo-Geophysical Survey around Itay El-Baroud Area, Nile Delta, Egypt. *Archaeological Discovery*, 2, 45-57.
6. [H. Shaaban](#), G. El-Qady, E. Al-Sayed, H. Ghazala and A.I. Taha (2016): Shallow groundwater investigation using TEM method at Itay El-Baroud, Nile Delta, Egypt. *NRIAG Journal of Astronomy and Geophysics*, 5, 323–333.
7. [Х.М. Шаабан](#), А.С. Егоров. Применение комплекса геофизических методов при изучении геологического строения водоносных горизонтов бассейна Эль-Харга (Западная пустыня Египта), *Естественные и технические науки*, 2016, № 2(92), С. 35-46.

Translation:

[H.M. Shaaban](#) and A.S. Egorov: Application of complex geophysical methods for studying geological structure of groundwater aquifers in El-Kharga basin (Western Desert of Egypt), *Natural and Technical Sciences*, 2016, No. 2 (92), pp. 35-46.

8. [Шаабан Х.М.](#), Газала Х., Аль-Сайед Э., Эль-Кадди Г. Применение электромагнитного метода переходных процессов для поисков неглубоких залежей подземных вод в районе города Итай Эль-Баруд, дельта Нила (Египет), *Записки Горного института / СПб*, 2015. Т.212, 135-141.

Translation:

[Shaaban H.M.](#), Ghazala H., Al-Sayed E. and El-Qady G.: Application of Time-domain electromagnetic method for searching of shallow groundwater in the area of Itay El Baroud, Nile delta (Egypt), *Journal of Mining Institute / St. Petersburg*, 2015. Vol. 212, pp. 135-141.

9. Ермолин Е.Ю., Ингеров А.И., [Шаабан Х.М.](#): Использование вертикальной магнитной компоненты в магнитотеллурическом методе для оценки параметров аномальных объектов, находящихся в стороне от профиля измерений, Записки Горного института / СПб, 2015. Т.212, 95-101.

Translation:

Ermolin E.Y., Ingerov A.I. and [Shaaban H.M.](#): The use of vertical magnetic component in the magnetotelluric method for estimating the parameters of anomalous objects away from the measurement profile, Journal of Mining Institute / St. Petersburg, 2015. Vol. 212, pp. 95-101.

10. [Х.М. Шаабан](#), И.Б. Мовчан. Особенности глубинного строения и тектоники бассейна Эль-Харга (Египет) по данным комплексных геолого-геофизических исследований, Материалы (48) XLVIII Тектонического совещания, Том 2. М.: ГЕОС (Москва), 2016, 328-333.

Translation:

[H.M. Shaaban](#) and I.B. Movchan: Features of deep structure and tectonics of El Kharga basin (Egypt) according to complex geological and geophysical studies, Materials of Tectonic Conference (48) XLVIII, Volume 2. Moscow: GEOS (Moscow), 2016, pp. 328-333.

11. Conferences:

- The 7th Arab conference on Astronomy and Geophysics (ACAG7), Helwan, Cairo, Egypt; 11-14 October 2021.
- The 35th Annual Meeting and International Conference of the Egyptian Geophysical Society (EGS) in Cairo, Egypt; from 19-20 March 2020.
- The 34th Annual Meeting and International Conference of the Egyptian Geophysical Society (EGS) in Cairo, Egypt; from 19-20 March 2019.
- The 1st International Conference of Basic Science and Applications, Faculty of Science, New Valley University, Egypt; from 9-10 April 2019.
- The 4th International Conference on New Horizons in Basic and Applied Sciences (ICNHBAS), 26-29 July 2019, Hurghada, Egypt; Organized by Faculty of Science, Al-Azhar University (Assiut Branch), Egypt.
- The 6th Arab Conference on Astronomy and Geophysics (ACAG-6), Helwan, Cairo, Egypt; 15-17 October 2018.
- The 4th Arab Conference on Astronomy and Geophysics (ACAG4), Helwan, Cairo, Egypt; 20-23 October 2014.

- The 11th International Conference of Research and Applied Geophysics: “Application of the Modern Geoelectric Exploration Technologies in Prospecting of Mineral Deposits”; 12-13 November 2013, St-Petersburg, Russia.
- The 10th International Conference of Research and Applied Geophysics: “Application of the Modern Geoelectric Exploration Technologies in Prospecting of Mineral Deposits”; 8-9 November 2012, St-Petersburg, Russia.
- The 20th Electromagnetic Induction Workshop (EMIW20), Giza, Egypt; from 18-24 September 2010.

12. Memberships:

- Membership in the Egyptian Geophysical Society (EGS).
- Membership in the Society of Exploration Geophysicists (SEG).
- Membership in the Arab Geosciences Union (ARGU).
- Membership in the Saudi Council of Engineers (SCE).

13. References:

- **Prof. Aleksey Sergeevich Egorov (Алексей Сергеевич Егоров)**
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