

Curriculum Vitae  
"Brief"



Personal information

First name / Surname

**Amr Ali** "Prof. Dr. Eng. Amr Hanafi Ahmed Ali"

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Nationality

Egyptian

Date of birth

21/10/1961

Language Proficiency

|         |               |
|---------|---------------|
| Arabic  | Mother Tongue |
| English | Very Good     |
| German  | Fair          |

Desired employment /  
Occupational field

**University Professor** at the Surveying Engineering Department, Faculty of Engineering-Shoubra, Benha University – Egypt, "Surveying, Geodesy and Geomatics Specialization".

Educational Qualifications

- **Dr.Tech.Sc.** in Geodesy & Geomatics - Technical University Graz, Graz, Austria 1996
- M.Sc. in Geodesy & Surveying - Faculty of Engineering, Shoubra, Zagazig University 1990
- Post Graduate Studies in Surveying – Faculty of Engineering-Shoubra, Zagazig University 1985.
- B.Sc. in Surveying - Faculty of Engineering-Shoubra, Zagazig University 1983.

Position/Professional  
Experience

- Technical Consultant to The World Bank (ICT Expert) for Doing Business – Enforcing Contracts and Property registration ICT Assessment and Action Plan Development 2018 – Till now
- Technical Consultant to the GIS Sector at the Ministry of Communication and Information Technology "MCIT" – Egypt. 2017 – Till now
- Technical Consultant for Business Development at the National Authority of Remote Sensing and Space Sciences "NARSS"- Egypt. 2016 – Till now
- Technical Advisor of the Union Arab of the Geomatics Topographers, 2015 –Till now
- Egyptian Representative of the professional educational committee of the FIG, 2012 –Till now
- Member of the Egyptian Committee of Surveying and Mapping, Egypt, 2012 –Till now
- The Director of Middle East and Africa "MEA" at Edge-Pro- The Sole representative of Hexagon in Egypt, 2015 – 2016.
- The Senior Vice President of "Proslab Group" – one of the leading companies in information and communications systems in Egypt. 2010 – 2015.
- Technical consultant to the Surveying Department- the municipality of the Holy Makah – Kingdom of Saudi Arabia. 2009 – 2010.
- The "CEO" of Protrac, "a Leading company in Geo-marketing researches" 2004 – 2009.
- A member of the steering committee adopted by Faculty of Engineering – Shoubra, Benha University for establishing "the Internal Quality Assurance for the Faculty of Engineering – Shoubra" – 2004 – 2006.
- Technical Consultant for GIS and Surveying Projects for "Techno Survey for Engineering Works" – A leading company for Surveying Activities. 1996 – Till now.

**Sharing** at many consortiums that dedicated for developing the community through the Participation, coordination and cooperation with some national and international academic entities.

Major Surveying and Mapping  
Engineering Activities

- Technical consultant for the poverty village's assessment and development project, the NGO's "Masr El Khair" Egypt 2012-2013.
- Technical Advisor for monitoring the urban Encroachment of the governmental lands 2017-Till now.
- GIS Enterprise System Implementation of the Participatory National, Regional and Governorate Strategic Planning for Balanced Spatial Development (SPAD), UNDP/General Organization of Physical Planning "GOPP", Ministry of Housing "2011-2016.
- The Geo-Spatial Enterprise System to the Egyptian Lakes and Fish Resources Development, General Authority of Fish Resources Development (GAFRDD), Ministry of Agriculture 2011-2017.
- GIS Enterprise System for Mobile Antenna Monitoring, National Telecommunication Institute (NTI) 2010.
- Technical Consultant of the Mapping and GIS Egyptian National Project for the Automation of the Cadastral rural Maps – "Phase I,II,III" 2004-2008
- Managing and supervising the Creation of the first navigable digital map in Egypt "Urban area" 2002-2009.
- Executing the survey works necessary for Mubarak-Housing Project at the New Societies in "6th of October City, Al-Sheikh Zayed and the New Cairo cities" 1998-2001
- Executing the necessary Surveying work for preparing the golf courts at "Al-Obour City".
- This includes: assessment of the recent situation of the topography and the given design, Staking out the required features (holes, T's...etc) and the given 3D design (creating the contour lines. Monitoring the equipment for the earth work survey to prepare the courts for the final step (agriculture procedures) - 2000.
- Surveying consultation needed for the steel structure at Al-Dekhila Factory - 2000.
- Surveying consultation required at Semadco & Pebbles Electric Talkha Co. generation project, "Talkha, Al Mansora" for Rolls-Royce Industrial Power Group - 2000.
- Complete Surveying work needed to establish the tracks of the railway lines at Dream-Park in "Dream-Land area, 6th of October City" - 1999
- Surveying Consultant to the General Authority of Civil Aviation in Egypt 1997 - 1999
- Executing the necessary geodetic work at Al-Sokhna Port. 1999
- Executing all the survey works for Mubarak Security Academy Project [Wadi Al Nil Co. for Investment and Construction] 1997 – 1999
- Complete study and survey works to establish the first Compass Calibration Pad (CCP) in Egypt – 1998.
- Executing the necessary surveying work for a planning new city "64 km<sup>2</sup>" at Wadi- Al Natron – Cairo-Alexandria desert road 1997.
- Doctorate student at the Institute for Mathematical Geodesy and Geoinformatics, Technical University Graz, Graz, Austria, 1993 – 1996.
- Field works and computations for the survey works proposed for developing the Nile Cruise Ships areas between Luxor and Aswan - 1992
- Primary Route Design and Alignment of the railway connection between Egypt and Lybia "El Salum - Tobrok" (170 km) - 1991
- A complete survey work for Aswan Airport - 1991
- Establishment for a First Order Leveling Network in Cairo - 1990
- Establishment for a First Order Triangulation Network in Cairo using GPS - 1989
- Production of Topographic Maps for about 100,000 Feddan in various regions in Egypt 1985-1989.

Position/Professional  
Experience

Academic Activities

- **Teaching** Surveying Engineering, Geomatics and mapping courses for the undergraduates – Surveying Engineering Department, Faculty of Engineering at Shoubra, Benha University, Egypt, 1983 Till now.
- Teaching post-graduate courses related to Project Management at the Architectural Department – Faculty of Engineering, Shoubra, Benha University- 2000 Till now..
- Sharing in supervising Master thesis in Lund University-Sweden and Stuttgart University of Applied Sciences-Germany at the field of GIS and Remote Sensing 2010 - 2016.
- Teaching Surveying, Geodetic Sciences, Digital Mapping and Geographic Information Systems (GIS) for the European Program "UNIGIS". It is a network of European and American universities that provide "Distance-Learning" Services 2010-2015.
- Teaching "Diplomas and Masters" in Geographical Information Systems techniques, 2008 Till now..
- Teaching Land & Topographic Surveying at the Civil Engineering Department –Faculty of Engineering, 6 October University – 1997 - 2005.

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|-----------------------|---|
| Academic Activities   | <ul style="list-style-type: none"> <li>• <b>Technical</b> coordinator of the technical project “Integration of the modern technology (GIS and RS) and pedagogic methods (E-learning) in Egyptian Higher Education focusing on Planning”, funded by the European Commission “Tempus JEP Projects” 2007 - 2009</li> <li>• Project manager for the Academic Project “Engineering Development of the Geomatics Educational Courses based on the Society Needs” (ENDGEOS) that is approved and funded by The Egyptian Higher Education Ministry 2005 - 2007.</li> </ul>  |
|                       | <p>Latest Tracks of the Scientific Directions "Publications within the last 15 Years"</p>   |
| Scientific Activities | <ul style="list-style-type: none"> <li>➤ Amr H. Ali, Multi Linear Reference System and Dynamic Segmentation for Traffic Congestion Management, American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS), Mar-2017</li> <li>➤ Amr H. Ali, Framework Development of Cybercartography for Mobile Environment, American Journal of Geographic Information System, Volume 6, Number 1, February 2017.</li> <li>➤ Amr H. Ali , and Mona S. ElSayed ,Performance Evaluation of Applying Fuzzy Multiple Regression Model to TLS in the Geodetic Coordinate Transformation, American Scientific Research Journal for Engineering, Technology, and Sciences, Volume 25, Issue 1, October 2016, PP 36 -50</li> <li>➤ Amr H. Ali , and Mona S. ElSayed , Improving the Accuracy of the SRTM Global DEM Using GPS data fusion and regression Model, International Journal of Engineering Research, Volume 5, Issue3, March 2016, PP 190-196</li> <li>➤ Amr H. Ali Developing Spatial Data Infrastructure in Egypt, International Journal of Emerging Engineering Research and Technology, Volume 3, Issue 10, October 2015, PP 19-36</li> <li>➤ Amr H. Ali , Rami Y. Khamis , and Michael Hahn , Assessing the Urban Encroachment Phenomenon in Egypt Using Satellite Imagery, International Journal of Scientific &amp; Engineering Research, Volume 6, Issue 11, November 2015, PP 1148-1159</li> <li>➤ Ali A. H., ElZamley H., and Khalil S., Modeling to identify suitable areas for the development in the Desert Regions In Egypt, Civil Engineering Research Magazine (CERM), Al-Azhar University, Cairo, Egypt ,2013</li> <li>➤ Ali A. H., ElSsemary H., Salah M., and Mustafa Elhadi., Accuracy Assessment of 3D model generation using High Resolution Stereo-Optical Satellite Imagery, Engineering and Scientific Research Journal (ESRJ), Vol. 6 No. (2), pp 52-66, Benha University, Cairo, Egypt, 2013</li> </ul>   |
| Scientific Activities | <ul style="list-style-type: none"> <li>➤ Ali A. H., Hegazy O., Noureldien M., and ElAmir E., Applying Association Rules and Co-location Techniques on Geospatial Web Services , Computer Engineering and Intelligent Systems, ISSN 2222-1719 (Paper) ISSN 2222-2863 (Online), Vol X, No.X, 2012.</li> <li>➤ Ali A. H., Hegazy O., Noureldien M., and ElAmir E., Integrating Web Services with Geospatial Data Mining: Disaster Management for Road Accidents, Geoinformatica – An International Journal (GIJ), Volume (2): Issue (1), 2012</li> <li>➤ Ali A. H., and ElSayed, M.S., Initiatives for Enhancing the Geomatics Education in Egypt: E-Learning in Engineering perspective, Civil Engineering Research Magazine (CERM), Al-Azhar University, Cairo, Egypt –2009.</li> <li>➤ Ali A. H., Multiple Factors affecting the Surface modeling: incorporate pattern analysis with interpolation techniques, Civil Engineering Research Magazine (CERM), Al-Azhar University, Cairo, Egypt –2009.</li> <li>➤ Ali A. H., Assessment of the polynomials for conversion between Geodetic coordinates (<math>\phi</math>, <math>\lambda</math>) and the UTM and “Or Vice Versa”, Civil Engineering Research Magazine (CERM), Vol. 31, No. (3), Al-Azhar University, Cairo, Egypt – July 2009.</li> <li>➤ Abd-ElAziz, Y. I., Barakat, H.A., Ali A. H., and El-Qadi H. M., Optimum Map Matching and Routing Selection for Real Time Vehicle Navigation System, Engineering and Scientific Research Journal (ESRJ), Vol. 6 No. (2), pp 67-87, Benha University, Cairo, Egypt – July 2009.</li> <li>➤ Abd-ElAziz, Y. I., Barakat, H.A., Ali A. H., and El-Qadi H. M., Towards Automatic Road Extraction from Digital Images, Engineering and Scientific Research Journal (ESRJ), Vol. 6 No. (2), pp 52-66, Benha University, Cairo, Egypt – July 2009.</li> <li>➤ Shaker, A., Saad, A., ElSayed, M.S., and Ali A. H., Remove-Restore Technique for Improving the Datum Transformation Process, Civil Engineering Research Magazine (CERM), Vol. 28 No. 1 pp 209-225, Al-Azhar University, Cairo, Egypt – January 2006.</li> <li>➤ Ali A. H., and EL-Amir E.M., Location Commerce Triangle, ITI 6th Arab GIS Conference Arab Map, Cairo, Egypt -September 2005.</li> <li>➤ ElSayed, M.S., and Ali A. H., Planning for Engineering Projects with the reference to application of Environmental Impact Assessment, 8th International Conference of the Global Spatial Data Infrastructure (GSDI-8) Cairo, Egypt–April 2005.</li> <li>➤ Shaker, A., Saad, A., ElSayed, M.S., and Ali A. H., Investigating the Effect of Using the Local Datum Instead of WGS-84 in Processing the GPS Observations, Civil Engineering Research Magazine (CERM), Vol. 27 No.(2) pp 519-530, Al-Azhar University, Cairo, Egypt – April 2005.</li> </ul> |

Other Academic/Applied  
Activities

**Extensive** Experience in teaching/training:

- **Preparing**, managing and teaching Hundreds of professional courses since 2000 , in the field of Topographic Surveying, Principles & applications of GPS, Advanced Techniques applied in Geodesy, Principles & applications of GIS, Principles & applications of Database, Advanced Techniques applied in Cartography, Advanced Techniques applied in Map Projection, Principles & applications of Information Technology, Management of the Engineering Projects, Advanced Techniques applied in Cadastral Surveying, Principles & applications of Advanced Surveying to **Egypt** (Ministry of Water Resources and Irrigation, Shore Protection Authority , The Arab Contractor - Osman Ahmed Osman), **Kuwait Kingdom** (Ministry of Finance, Ministry of Agriculture and Kuwait Municipality), **Saudi Kingdom** (Royal Authority, Ministry of Electricity), **Sultanate of Oman** (Ministry of Housing ,Ministry of Electricity, Ministry of Regional Municipalities and Water Resources, Air Force, Muscat Municipality) and **UAE** (Dubai Municipality and AL-Ain Municipality) 2000 – Till now.
- Teaching and supervising at the National 9 months - GIS Track organized by The Egyptian Ministry of Communications and Information, IBM and ESRI –2002 and 2003.
- Admirable Experience in GIS in different directions as a consultant in many private and national organizations.