Dr Ahmad Taha

Diploma, BA, MSc, PhD
Geography Department • An-Najah National University
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PERSONAL PROFILE

Extensive experience in engineering surveying and photogrammetry. Current research interests include satellite geodesy, photogrammetry and GIS. Responsible for writing software packages. A skilled IT power user and systems administrator with a natural affinity for computing.

PROFESSIONAL EXPERIENCE

2009-Present — **Assistant Professor, An-Najah N. University, Palestine**
Managing Director of Taha Surveying Office, Palestine

Teaching Surveying, AutoCAD, GIS and GPS to the undergraduate students in the Geography and Engineering departments.

Directing surveyors and photogrammetry staff in Taha Surveying Office to conduct various projects including Photogrammetry, GPS and different surveying work.

2008-2009 — **Postdoctoral Researcher, The University of Nottingham, UK**

Projects: Remote Measurement Technology for Sail Shape Determination. Research involves working in close range photogrammetry, Laser Scanner and the development of photogrammetric software.
Flood Risk Management Research Consortium. Research involves in developing an integration system (GPS, camera and tilting sensor) to be used for embankment monitoring.

2005-2008 — **Student, The University of Nottingham, UK**

Reading PhD Engineering Surveying and Space Geodesy
PhD thesis: Mapping The Underworld: Integrated GNSS Based Positioning and GIS Based GNSS Simulation

2005-2007 — **Demonstration work (Part time), The University of Nottingham, UK**

Postgraduate courses: Physical Geodesy, Geodetic Surveying and Analytical Methods
Undergraduate courses: Eng Surveying, Civil Eng Surveying Project (Field Course), Surveying and Management, Archaeology (Surveying) and Eng Communication – Computing

2005-2006 — **Part time Lecturer, Nottingham Trent University, UK**

Lecturing surveying to undergraduate students

2004-2005 — **Student, The University of Nottingham, UK**

Reading MSc Geodetic Surveying. *Dissertation*: Aerial Triangulation using Small Format Digital Images

1997-Present — **Managing Director of Taha Surveying Office, Palestine**

Planning and conducting survey projects including roads & transportation, water & sewer, building & topographic, as built,

photogrammetry and GPS work. Used by the court and other people as an expert to evaluate properties price.

2002-2003 **Part time lecturers, Civil Engineering Department, An-Najah Community College, Palestine**

Lecturing surveying, photogrammetry and geodesy to undergraduate students

1992-1997 **Survey Lab Technician, Civil Engineering Department, An-Najah N. University, Palestine**

Training undergraduate students in operation of survey equipments and software

SKILLS

- IT administration, software programming includes Matlab, Visual Basic .Net, C# and Visual Basic for Application (VBA)
- Computer application software includes: ERDAS IMAGINE, Leica Photogrammetry Suite (LPS), Austulais, ArcGIS, AutoCAD, Leica Geo Office Combined and Trimble Geomatics Office
- Extensive experince in using surveying instruments include: GPS, Total-Station and Level.

LANGUAGES

- Arabic
- English

EDUCATION

- PhD in Engineering Surveying and Space Geodesy, The University of Nottingham, 2005-2008.
  Thesis: Mapping The Underworld: Integrated GNSS Based Positioning and GIS Based GNSS Simulation
- MSc Geodetic Surveying, The University of Nottingham, 2004-2005. Syllabus includes aspects of fundamentals of satellite positioning, advanced satellite positioning, Photogrammetry and Remote Sensing, geodetic reference systems, physical geodesy, engineering surveying, etc.
  Dissertation:- Aerial Triangulation Using Small Format Digital Images
  Award MSc degree with distinction (Top student)
- Top student on BA in Teaching Methods / Vocational & Technical Training, An-Najah National University, Palestine, 2001-2004. Includes modules in teaching, engineering, general management and accounting
- Surveying Diploma, Wadi Seer College, Jordan, 1989-1991, top student. Includes modules in Engineering Surveying, Cadastral Surveying, Geodesy, Photogrammetry and Remote Sensing, Mapping, etc.
- Comprehensive Exam in Surveying, Jordan. Achieved top student for the Kingdom of Jordan

SCHOLARSHIPS/AWARDS

- US Institute of Navigation sponsorship at the ION GNSS 2007 conference at Fort Worth, Texas, in September 2007. The award was made after the paper, entitled 'A continuous updating technique for loosely coupled RTK GPS with total station observations', was selected by the conference programme committee for presentation and student travel sponsorship (2007)
- The Engineering and Physical Sciences for Research Council (EPSRC) Scholarship to study for a PhD degree in Engineering Surveying and Geodesy at the University of Nottingham (2005)
- The Leica-Snelling Prize for the best postgraduate student in the Institute of Engineering Surveying and Space Geodesy (IESSG), University of Nottingham (2005)

REGISTRATION

- Engineering Association (Palestine), Reg. No. 90100634, 2012-Present
- The Royal Institue of Navigation (UK), 2007-Present
- Institution of Civil Engineering Surveyors (UK), Membership No. 1757405, 2004-Present
- Chartered Surveyor (Palestine), Leicense No. 75, 1996-Present

SOME OF SURVEYING PROJECTS

- Photogrammetric Projects (2010-Present):
    - Ajja+Anza+Koor+Fahma – Jenin area (14,000 donums)
    - Der Balot – Salfeet area (3,000 donums)
    - Beit Ligia + Beit Sira + Kharbata – Ramallah area (11,000 donums)
    - Nottingham University (educational project) in the UK and creating a three dimensional model of the University
- Surveying Projects (1996 – Present):
    - Jericho Gate - Jericho (2014): Topographic Surveying and road sections of 3000 domuns (Universal Group).
    - Nwemeh site – Jericho (2013): Topographic Surveying and subdivision of 600 domuns (Amar Group).
    - Burham site – Ramallah (2012): Topographic Surveying of 80 domuns (Amar Group).
    - Nablus Industrial Area – Nablus (2012): Topographic Surveying of 120 donums (Amar Group).
    - Toor Streets in Jerzeem Mountain – Nablus (2012): 4 km Surveying and design of interior roads (Samerian Village Council).
    - Ramallah Schools – Ramallah (2011): 5 Schools, details surveying of the existing schools in Ramallah (Universal Group - UG)
    - Qbiba and Qatana – Jerusalem (2011): 40 km Surveying for water network (Abu Hanood Construction Company).
    - Albireh Treatment Plant – Albireh (2011): Surveying of the existing and the proposed location of the treatment plant with UG.
    - Ring Road – Ramallah (2010): 17 km Surveying for roads design with Universal Group (UG).
    - Der Al Hatab and Salem – Nablus (2010): Control Points using GPS with Brothers Company.
    - Old Village of Haja – Qalqilia (2010): Survey old village for reconstruction with Riwaq Centre.
    - Rojeeb Sewage Network – Nablus (2011): 20 km Surveying for sewage network design. (Hijjawee Center).
    - Various Roads in Ramallh, Nablus and Jenin about 23km (2010-2011): Surveying for roads design with Al-Dear Company.

- Asera to Yassed Road – Nablus (2009 -2010): Control Points using GPS, Surveying for roads design and Surveying with Contractor Almoqaweloon and UG.
- Ramallah Valleys – Ramallah (2009): Surveying for sewage design and treatment plant with UG.
- Several Schools in West Bank (2000-Present): Preparing surveying maps, stakeout of school location and quantity calculations of earthwork with Eswed Construction Company.
- Several hundreds of private surveying for Land New Registration and Land Subdivision during 1996 – present.
- More than 2000 private surveying for buildings in West Bank during 1996 – present.

SOME OF PUBLICATIONS

Long, G, Smith, M, Mawdesley M, Taha, A, 2013. Quantitative assessment methods for the monitoring and inspection of flood defences: New techniques and recent developments. London, C717 ©CIRIA 2013 CON186 ISBN: 978-0-86017-720-3

Hancock, C.; Roberts, G. W.; Taha, A.; (2009). Satellite Mapping in Cities: how good can it get?. Proceedings Institution of Civil Engineers; Civil Engineering. August 2009, Volume 162, Issue CE3, ISSN 0965 089 X.

SMITH M J and TAHA A M, 2009. Changes in camera calibration parameters of digital cameras with time *In:* OPtical 3-D measurement techniques IX, Vienna, Austria.

TAHA A, SMITH M J, 2009. Photogrammetric potential of the Canon EOS 5D MK II for precise still and video measurements *In:* RSPSoc 2009: New dimensions in earth observation, Leicester.

LONG, G., MAWDESLEY, M.J., SMITH, M. and TAHA, A., (2010). Simulation of airborne LiDAR for the assessment of its role in infrastructure asset monitoring. In *Computing in Civil and Building Engineering, Proceedings of the International Conference*, W. TIZANI (Editor), 30 June-2 July, Nottingham, UK, Nottingham University Press, Paper 215, p. 429, ISBN 978-1-907284-60-1

O. Ogundipe, C. Hancock, A. Taha, G.W. Roberts, IESSG, University of Nottingham, UK; J-P. Montillet, Forsberg Service Ltd. (2009) Mapping and Visualisation of Sub-surface Utilities in Urban Environments. *Proceedings of the ION GNSS 2009, 22-25 September, Georgia, USA*

Taha, A., Hancock, C., Roberts, G.. W. and Meng, X. (2008) The Use of GPS and INS for Centimeter Positioning Accuracy during Long GPS Outages. *Proceedings of the International Symposium of GPS/GNSS 2008, 11-14 November, Tokyo, Japan,(Paper accepted as reviewed paper).*

Taha, A., Kokkas, N., Hancock, C., Roberts, G.. W., Meng, X. and Uff, J. (2008) A GIS Approach to GNSS Simulation in Urban Canyons. *Proceedings of the European Navigation Conference 2008, 23-25 April, Toulouse, France, CD-ROM.*

Ogundipe, O., Hancock, C., Taha, A. and Roberts, G. W. (2008) The Use of High Sensitivity GPS for Mapping Sub-surface Utilities. *Proceedings of the European Navigation Conference 2008, 23-25 April, Toulouse, France, CD-ROM.*

Roberts, G. W., Hancock, C., Ogundipe, O., Meng, X., Taha, A. and Montillet, J-P. (2007) Positioning Buried Utilities Using an Integrated GNSS Approach. *Proceedings of the International Global Navigation Satellite Systems Society (IGNSS) Symposium 2007, 4 – 6 December, The University of*

New South Wales, Sydney, Australia. CD-ROM

Taha, A., Ogundipe, O., Hancock, C., Roberts, G. W. and Meng, X. (2007) Kinematic Positioning Through Continuous Updating Technique. *Proceedings of the Royal Institute of Navigation's Nav'07 Conference, 30 October – 1 November, London. CD-ROM*

Taha A. (2007). A Continuous Updating Technique for Loosely Coupled RTK GPS with Total Station Observations. *Proceedings of the ION GNSS 2007, 24-25 September, Texas, USA, CD-ROM, pp. 1491-1500.*

Montillet, J-P., Taha, A. Meng, X. and Roberts, G. W. (2007) Mapping the Underworld – Testing GPS and GSM in Urban Canyons. *GIS/GPS 2007 – A Supplement to Civil Engineering Surveyor, September, pp. 4-8.*