

# Dr. SARHAT MUSTAFA ADAM

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## Professional Profile

A motivated lecturer and professional engineering surveyor, who enjoys being part of, as well as leading a successful and productive team. I am quick to grasp new ideas and concept, besides to develop innovative and creative solutions for problems. Able to work well on his own imitative and can demonstrate the high levels of motivation required to meet the tightest of deadlines even under significant pressure. For plus 5 years, I worked in industry with many national and international companies, provided me with enough experiences in several aspects. Mixing experience with academia will offer me a power to prosper the teaching process.

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## Qualification

### PhD in Engineering Surveying and Space Geodecy

NGI, Nottingham University, Nottingham, United Kingdom (2011-2015).

### MSc in Engineering Surveying and Geodesy

IESSG, Nottingham University, Nottingham, United Kingdom (2008-2009).

### Certificate English Language Courses

Castle College, Nottingham, United Kingdom (2007-2008)

CELE, Nottingham University, Nottingham, United Kingdom (2007-2008)

IELTS certificate.

### BSc in Civil Engineering

College of Engineering, Civil department, Dohuk University, Dohuk, KRG, Iraq (1998-2002)

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## Career Summary

### 2015-current Full time: Lecturer at Duhok University, College of Engineering.

- Lecturing Surveying for Engineers, Academic debating, Computer skills, Geomatics Data management, Data handling & processing with VBA, Programming for Engineering Applications, Photogrammetry, Fundamental of Satellite Positioning, and Photojournalism.
- Running short courses for graduate and engaged industry engineers to help them achieve their personal and career goals, improve their skills and confidence and fulfil their true potential and most importantly to let them stay up-to-date with the knowledge.
- Running MSc courses and involved in supervision process of MSc students.
- Practical demonstration; coursework assessment; and undergraduate supervision.
- Member of foundation board of establishing surveying department at Duhok University.
- Involved in the research and designing of new courses and materials.
- Assessing students' course work and material.
- Involved in the preparing of exams and the marking of results.
- Providing mentoring, advice and support to students on a personal level.
- Implementing University research projects and involved in its publication.
- Carrying out student's appraisals.
- Actively leading class discussions and encouraging debate.
- Member of many college & departmental level comities and head of departmental quality assurance.
- Presenting and attending many seminars at college of engineering and universities level.

**2011- 2015 Full time: University of Nottingham, UK.**

- Granted a scholarship to study toward a PhD in Engineering Surveying and Space Geodesy, successfully completed PhD on March 2015. Attended many short courses at University that aimed to raise career and skills development.

**2009-2011 Part time. GIC (Guide and Information Centre) and SS4GPS cooperation, Duhok, Iraq.**

- Established SS4GPS Company in order to prepare GPS maps for Kurdistan region.
- A cooperation with local government (Duhok) for production of GPS maps.
- Data collection from 3 Cities (Sulaymnia, Hawler, Duhok) with help of GIC teams.
- Prepared the first ever GPS mapping version for Kurdistan region in 2010 and uploaded to navigation kits.

**2009-2011 Part time, Ster Group, Iraq.**

- Geodetic survey and design for access pathway and drill sites.
- Geodetic survey and design for early production facilities.
- Research area to improve any technical issues that need attention and find possible solutions through intensive investigations.
- To check the road or pathway design standard (example, AASHTO) and find out whether it meets the minimum requirements.
- To assure to meet the specifications for survey work and revise it if needed.
- To carry out regular field calibration for all applicable survey instruments and check whether they meet minimum standards.
- Improving skills of engineering staff working on site through lecturing short courses or by practicing proper training, this include all survey instruments in addition to engineering application programs such as AutoCAD civil 3D, LisCAD, Leica GEO-Office, and many more.
- To check the coordinate system of any given survey data and investigate whether they need coordinate transformation. Also, work on proper coordinate transformation between GPS and total station with applying network adjustment for any permanent or temporary BM or control stations. (Hint: This is in order to minimize or mitigate errors. The difference between GPS and total station become apparent when the survey distance increases).

**2010-2011 Part time, Zaxo Technical Institution-Surveying Department, Iraq.**

- Lecturing 2nd class students the computer applications II and Cadastral Surveying.

**2009-2011 Full time, Duhok University, Iraq.** Assistant lecturer and experimental officer

- I was responsible for teaching the 2<sup>nd</sup> class undergraduate the Survey practical course.
- Lecturing the 2nd year undergraduate of civil and water resources the theory part of Surveying

**2008-2009 Full time, University of Nottingham, UK.** Granted a scholarship and studied M.Sc. in Engineering Surveying and Space Geodesy

**2007- 2008 Full time, DNO International, Tawke, Zakho, Iraq.** Worked as a draftsman and site Engineer for oil production

- Prepare rough sketches by studying engineering specifications
- Perform site survey to gather as-built data required for preparing detailed design
- Supervise the updating of field change notices to reflect the actual as-built
- Prepare final drawings by studying engineering sketches
- Resolved discrepancies by collecting and analysing information
- Responsible for drawing work package as per client design to CAD standard

- Coordinated with lead design engineers for gathering of information to ensure that design and CAD drawings were consistent and an acceptable quality to meet the satisfaction of clients

**2005-2007 Full time, Sipan (local engineering group), Iraq.** Site engineer

- Worked full time as a site engineer supervising building of institution of teaching.  
Worked as a site engineer consultant

**2004-2005 Full time, International Electricity Services Company (K.E.C), Iraq.** Surveyor

- Worked full time as a Surveyor on electricity transmission line for lay outting electricity towers and further survey checking.
- Supervised Sarsing-Amedi for extending a 132Kv Transmission line.

**2003-2004 Full time, Seureca, Iraq.** Draftsman

- Worked full time as a draftsman using CAD tools
- Worked as a surveyor collecting data by GPS and total station and post processing data using LGO and CAD tools.
- Prepared master plan for Dohuk city using collected survey data for different infrastructure features such as existing sewerage system, electricity pools, and topographic maps.
- Surveyed (Hishkarow) River by total station(GTS 220) with (GPS) reference points along the river every 2km. Taking cross section of river for (20-50) m form Hitet to Aloka bridge with (25) km length.

**2003-2007 Part time, Khairedeen S. Jamil (Local Engineering Consultant Office), Iraq.**

- Work part time as a draftsman, preparing 3D modelling for building façade

**2002-2003 Full time, Abdulwahid Arch. Bureau (Engineering Consultant office), Iraq.**

- Worked as a draftsman, preparing 3D modelling for building façade and 2d plans
- Acted as a civil engineer, supervising the projects and consultation

## Personal Details

**Date of Birth:** 27/11/1978 **Languages:** Fluent Kurdish, English & Arabic

**Nationality:** Iraqi-Kurdish **Health:** Excellent, non-smoker

## Interest & Activities

**Current included:** working on academic institution, teaching, 3d design modelling using 3d Max, Researching my subject including working on local Geoid of Specific area and setting up GPS network active stations. Installation of GPS maps for Kurdistan region.

## Publications

### Published

- Highway Tracking and Mapping Using Mobile GPS Techniques
- An Approach to Produce a GIS Database for Road Surface Monitoring
- Flexural characteristics of rubberized cement-stabilized crushed aggregate for pavement structure

### In progression

- A low cost mobile system for pothole and crack detection
- An approach for macrotexture characterizing or texture depth measurement using automated image-based 3d modeling.

- Estimating the repeatability and accuracy of university of Duhok geodetic control point.

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## Publications

Title of paper	Journal	Impact Factor	Place
Highway Tracking and Mapping Using Mobile GPS Techniques	The 4 <sup>th</sup> ISCSU conference		Erbil
An Approach to Produce a GIS Database for Road Surface Monitoring	APCBEE Procedia	5.0	UK
Flexural characteristics of rubberized cement-stabilized crushed aggregate for pavement structure	Materials & Design	<b>4.364</b>	UK
THE USE OF ONLINE AND OFFLINE PROCESSING TOOLS TO IMPROVE THE PRECISION OF A GPS PASSIVE STATION	Pure & Engineering Science- Duhok Journal		Duhok
A COMPARISON OF RTK-GPS VERTICAL COMPONENT WITH PRECISE DIGITAL LEVEL FOR ESTIMATING VOLUMES	Pure & Engineering Science- Duhok Journal		Duhok
The use of semi-automated method for assessing the horizontal positional accuracy of Google Earth imagery	Academic Journal of Nawroz University		Duhok

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## Areas of Strength

- **Subject area:** Photogrammetry, Image analysis and Processing, image based 3d modeling, Intelligent transport systems; Location Based Services and mobile solutions; Cooperative ITS; Vehicle-to-vehicle communication; vehicle autonomy, geographical information systems, image processing,
- **Technical:** GNSS positioning and navigation; inertial navigation; GNSS data processing; integrated sensors; driving simulator; Smartphone positioning; structural deformation monitoring.
- **Hardware:** GNSS receivers; inertial measurement units; inertial navigation systems; total stations; UWB receivers; laser scanners; wheel odometer; Smartphones.
- **Software:** CAD civil 3D; Matlab; GrafNav; LSS; Leica Geo Office; Leica Spider and SpiderNet.

References and letters of recommendation are available upon request