

CURRICULUM VITAE

HISHAM I. M. ABDEL-MAGID

(aka. Husham Isam Mohamed)

Civil & Infrastructures Engineer

M.Sc., B.Sc., SM.ASCE, SM.IWA, MPMI, GSEC, MSES, FMWTS

PERSONAL INFORMATION:

Birth & Nationality : 1982, Sudanese
Gender : Male
Marital Status : Married, and father of four children
Languages : English (fluent), Arabic (fluent)
Driving License : International, Qatari & Sudanese
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EDUCATION : Ph.D. in Civil Engineering, Sudan University of Science and Technology (SUST), expected completion date September 2012.
Master of Civil Engineering, Sudan University of Science and Technology (SUST), June 2007.
Bachelor of Science (1st Class Honours), Civil Engineering, Al-Zaiem Al-Azhari University, May 2004.

MEMBERSHIPS:

- American Society of Civil Engineers (ASCE), USA.
- International Water Association (IWA), UK.
- New York Academy of Sciences (NYAS), USA.
- Project Management Institute (PMI), USA.
- Sudanese Engineering Council (SEC), Sudan.
- Sudan Engineering Society (SES), Sudan.
- Water Technology Society (WTS), Sudan.

SUMMARY OF CAPABILITIES:

General:

- Excellent analytical skills, practical ingenuity, and high ethical standards.
- Strong academic background with deep understanding of engineering concepts along with persistent self learning competence.
- Ability to work under pressure and meet tight deadlines.
- Initiative, self motivated, and a dependable team partner.

Academic:

- Great command and master of new technology tools reflected in civil works (including but not limited to: Computer Aided Design and Integrated Modelling, programming specialized engineering modules, .. etc.).
- Systematic search and research abilities.
- Breakdown analysis & solutions of real-life problems as required by profession.

Professional:

- Experienced in design and execution of various structural and infrastructural systems according to international quality control standards.
- Practiced civil works designer, reliable on-situ proficient, dependable quality controller, skilled CAD operator, and specialized computer programmer.
- Capable of coordinating with all related disciplines during Project's design, design review, and construction stages; with ample managerial skills.

- Shop drawings and As Built drawings review.
- Professional processing and analysis of Satellite Images through numerous GIS models.
- Familiar with FEDIC, British and American design and construction standards.

ACADEMIC EXPERIENCE:

- Aug. 2010 - To Date** **Lecturer**
College of Water & Environmental Engineering
Sudan University of Science & Technology (Sudan)
- Duties:
- Lecturer of several academic courses for first, second, third, and fourth year graduate students at Environmental Engineering Department, College of Water & Environmental Engineering, Sudan University of Science & Technology, Khartoum, Sudan.
- Jul. 2007 - Nov. 2007** **Researcher**
Institute for Technological Research (ITR)
of The National Center for Research (NCR-Sudan)
- Duties:
- Research group member in the field of quality assurance, material optimization for construction, and building utilization.
- Jul. 2004 - Jul. 2007** **Assistant Researcher**
Institute for Technological Research (ITR)
of The National Center for Research (NCR-Sudan)
- Duties:
- Team member of research works at the field of building materials' cost efficiency and quality assurance.
- May 2004 - Jul. 2004** **Teaching Assistant**
Faculty of Engineering
Al-Zaiem Al-Azhari University (Sudan)
- Duties:
- Teaching assistant at Civil Engineering Department, Faculty of Engineering, Al-Zaiem Al-Azhari University, P.O. Box 1432, Khartoum, Sudan.

PROFESSIONAL EXPERIENCE:

- Jul. 2010 - To Date** **Deputy Project Manager**
Dongola-Argeen Expressway Project (Topographic Survey, Soil Investigation, and Construction Cost Estimation for the Sudan – Egypt Road)
Center for Consultancy and Feasibility Studies (CCF) - Sudan University of Science & Technology (Sudan)
Client: Daehan Consultants Consortium (Korea)
Project Owner: AlZawayya Development Company (Sudan)
- Duties:
- Direct management and supervision of survey and geotechnical teams and assisting the Project Manager in logistical, procurements, financial and

contractual aspects of the road project (project value: 400,000 US\$, road length: 365 km),

- Formulation of Organization Chart and preparation of related contracts for all team members (including job description of the engineers, surveyors, geotechnical technicians, ... etc).
- Preparation of the Project's Implementation Plan.
- Preparation and update of the Project's Time Schedule in line with contractual milestones.
- Progress follow-up and troubleshooting.
- Review of technical documents (reports, method statements,..etc) so as to confirm its adherence to the Contract requirements and any subsequent comments of the Client, and further submission to the Client for approval.
- Provision of fluent communication channel with the Client.
- Preparation of interim and final payment invoices.
- Call and attendance of frequent Technical Meetings and preparation of the meeting minutes.
- Draft and preparation of related correspondences with respect to contractual obligations and technical aspects.
- Preparation, compilation and production of Progress Reports, as well as final production of Technical Reports.

Nov. 2007 - Jul. 2010

Civil & Infrastructures Site Engineer

The Pearl Qatar Project – Phase II (Medina Centrale Package)

Dar Al-Handasah Shair and Partners (Qatar)

Project Owner: United Development Company (UDC)

Duties:

- Direct supervision and application of quality control (QC) practices for all civil works at Medina Centrale Site (project value: 250,000,000 US\$, area: 163,000 m²), including but not limited to: setting of survey primary bench marks, inspection of mass backfill compaction & field testing, successful pouring over 170,000 m³ of concrete structures including piling works (more than 2200 piles), superstructure elements, and post tensioned slabs (which involved the installation of almost 2,000 Tons of PT cables), as well as PT stressing approval & grouting, trouble shooting of every day site problems ...etc.
- Supervising and evaluating piling tests result reports in line with QC standards (such as low strain integrity, static loading, and high strain dynamic tests), Mix Design inspection and fresh concrete testing according to QC procedures ...etc.
- Direct supervision of infrastructures works such as excavation, pipe alignment and laying, testing, manholes inspection & levelling, and backfilling as related to Pneumatic Solid Waste, Telecommunication, BMS, 11kV cables, Storm Water Drainage, and Sanitary Sewer systems.
- Assisting in technical review and approval of several subcontractors for structural works (such as backfilling, piling execution, cut and bent rebar, post-tensioning works, QC laboratory, anti-termite control, ...etc).
- Assisting in various materials review and quality approval (including but not limited to backfilling soils, concrete aggregates and mix design, steel reinforcement, post-tensioning tendons, curing agents, grouting chemicals, steel anchoring components, scaffolding, ... etc).
- Numerous Method Statements technical review and approval, as well as assuring its compliance with the Project's specifications and quality guidelines.

- Assisting in Working Drawings and Shop Drawings review.
- Daily site monitoring, reporting and quality assurance.
- Attending frequent Technical and Construction Meetings.
- Drafting and preparing related technical letters with respect to contractual obligations and aspects.
- Initiating site observations and quality control letters.
- Preparing, compiling and producing Monthly Progress Report, Monthly Construction Report, and Quarterly Progress Report.
- Assisting the Resident Engineer in overall site-related coordination and management (including but not limited to RFIs distribution & final commenting, supervising the project's team of civil engineers & surveyors, ... etc).

Jun. 2006 - Nov. 2007

Civil Works Inspector (*Trainee*)
NTC Tower
CENTEX Engineering (Sudan)
Project Owner: National Telecom Corporation (NTC)

Duties:

- Civil works and Infrastructure inspection.
- Pile foundation boring and Installation follow up.
- Raft Foundation and Pile Caps steel and concrete inspections.
- Leveling, measurement and verticality inspection for all concrete elements according to the design requirements.
- Mix design inspection, fresh concrete testes and concrete quality control.
- Daily site works reports.
- Brick-works and Block-works supervision and inspection.
- Pipelines, manholes for water and wastewater networks Installation and inspection.
- Civil works measuring and quantity surveying.
- Working Drawings and Shop Drawings Review.
- Work Progress Reports.

Apr. 2007 – Dec. 2007

Civil Engineer
Um Bayada Irrigation Project
Sudan University of Science & Technology Consulting Team

Duties:

- Design via GIS-based hydrological analysis for a 15,000 hectares area located in Jebel Mara at Darfur state; along with determining optimum locations for several water reservoirs in order to facilitate water harvesting for irrigation and development projects in the area.

AFFILIATIONS & MEMBERSHIPS:

- **Member** Project Management Institute (PMI), with ID# 1811554, website: <http://www.pmi.org/>, Pasadena, USA, 20 Jun. 2010 to date.
- **S.Member** American Society of Civil Engineers (ASCE), with ID# 970556, website: <http://www.nyas.org/>, New York, USA, 12 Mar. 2010 to date.
- **S.Member**, International Water Association (IWA), with ID#, 00997703, website: <http://www.iwahq.org/>, London, UK, 1 Jan. 2010 to date.

- **Member** New York Academy of Sciences, with ID# 05077379, website: <http://www.nyas.org/>, New York, USA, 15 Jun. 2007 to date.
- **Fedora Ambassador** in Sudan and Qatar, The Fedora Linux Project, E-mail: himam@fedoraproject.org, wiki page: <https://fedoraproject.org/wiki/> User:Himam.
- **Secretary of International Technologies Office**, Sudanese Society for Young Scientists (SSYS), Khartoum, Sudan, E-mail: ssys.sudan@gmail.com, 21 Feb. 2007 to date.
- **Steering committee member**, Water Technology Society (WTS), Khartoum, Sudan, E-mail: memo.wts@gmail.com, 21 Mar. 2006 to date.
- **Graduate Engineer** of the Sudanese Engineering Council, with designated number EC/ER/GE/5208, 27 Jun. 2004.
- **Member** Sudan Engineering Society, P.O. Box 759, Khartoum, Sudan, 12 Jun. 2004.
- **Co-Founder Member** Water Technology Society, P.O. Box 268, Khartoum, Sudan, 2 Jul. 2003.

COPYRIGHT PATENTS:

- Computer software module: **CN-Runoff Estimation Model (CN-REM)**, Registered at The Federal Council for Literary and Artistic Works, Republic of Sudan, with designated number 2H/2007AC/7C, 28 May 2007.

AWARDS:

- Al-Zaiem Al-Azhari University Prize for **Excellent Academic Performance** in Civil Engineering, Feb. 2001, Khartoum, Sudan.
- Arab Council for Training Students of Arab Universities **Prize for the Second Best Performance** in 3rd Arab Student Innovation Activity Conference about "Environment", Oct. 2000, Khartoum, Sudan.

TRAINING COURSES:

- 19 to 30 Dec. 2010 **Analytical Methods in Water Quality Assessment**, Organized by Sudan University of Science & Technology (SUST) in collaboration with International Organization for Migration (IOM), held at Badi Lecture Hall & Water Laboratory, College of Water & Environmental Engineering - Sudan University of Science & Technology, Khartoum, Sudan.
- 24 Oct. to 11 Nov. 2010 **Basic Training Programme for Developing the Professional Performance of University Staff**, Organized by University Staff Performance Development Centre (USPDC) at Sudan University of Science & Technology (SUST), held at seminars lecture hall of USPDC - Sudan University of Science & Technology, Khartoum, Sudan.
- 26 Apr. to 05 Jun. 2010 **PMI Project Management Professional Certificate – Training and PMP Exam Preparation**, Organized by LEAD management solutions, Doha, Qatar.
- 27 Aug. to 07 Sep. 2007 **Land Use Evaluation with Open Source Geomatics Tools**, Organized by Spatial Applications Division (SADL) of Katholieke Universiteit Leuven (K.U. Leuven), held at lectures halls of SADL, Leuven, Belgium.
- 26 to 28 Jun. 2007 **Introductory Course to Nanoscience & Nanotechnology**, Organized by Sudan Academy of Sciences (SAS) in collaboration with Institute for Technological Research (ITR), held at the Lectures Hall, National Centre for Research, Khartoum, Sudan.

- 12 Mar. to 12 May. 2006 Training Course In **Advanced Materials Quality, Testing and Inspection**, Organized by Institute for Technological Research, held at the Lectures Hall, National Center for Research, Khartoum, Sudan.
- 1 to 6 May 2006 Training Of Trainers Course On **Conflict Resolution & Negotiation Skills for IWRM**, Organized by Nile_IWRM network & Concert Engineering & CWP Ethiopia & AMU & Cap-Net & GWP Eastern Africa & NBI/ATP, held at the Conference Hall of Axum Hotel, Addis Ababa, Ethiopia.
- 10 to 22 Dec. 2005 Training Course In **Remote Sensing & Geographic Information Systems Technologies (GIS)**, Organized by Remote Sensing Authority, National Center for Research, Ministry of Science & Technology, Khartoum, Sudan.
- 26 Feb. to 24 Apr. 2005 Training Course in **Geographic Information Systems**, Organized by Centre for Engineering & Technical Studies (CETS), Khartoum, Sudan.
- 09 Jun. to 29 Sep. 2004, Training Course In **Materials Testing and Elements Inspection**, Organized by Institute for Technological Research, National Center for Research, Khartoum, Sudan.

PUBLICATIONS & PRESENTATIONS:

- **Abdel-Magid, H.I.M.** and Shigidi, A.M.T., "Hydrologic Analysis of Digital Elevation Models Using Archydro Extension", ICCCBCE 2010, the International Conference on Computing in Civil and Building Engineering, jointly organized by the International Society for Computing in Civil and Building Engineering (ISCCBE) and the Faculty of Engineering at The University of Nottingham, held at the East Midlands Conference Centre, Nottingham, UK, 30th Jun. to 2nd Jul. 2010.
- **Abdel-Magid, H.I.M.**, and Abdel-Galil, A.G, "Water and Industrial Development", Workshop entitled: Dialogue on Water and MDG's, jointly organized by Sudan Academy of Science and Technology (SAS) and Water Technology Society (WTS), held at the conferences hall of the National Center for Research (NCR), Khartoum, Sudan, 21st Jun. 2007.
- **Abdel-Magid, H.I.M.** and Shigidi, A.M.T., "A Soil Conservation Service Curve Number GIS Model for Estimation of Rainfall-Runoff: CN-REM", Map Middle East 2007, the 3rd Annual Conference and Exhibition on Geospatial technologies and their applications, jointly organized by GIS Development (India) and Dubai Municipality (UAE), held at Dubai International Convention and Exhibition Centre, Dubai, UAE, 9th to 11th Apr. 2007.
- **Abdel-Magid, H.I.M.**, "Implementation of GIS Technology in Development Projects", Workshop on Research Outcomes and Its Role in Development: Experience of Institute for Technological Research (ITR), jointly organized by National Center for research and Ministry of Environment and Physical Development, held at the conferences hall, Sudanese Banks Union, Khartoum, Sudan, 9th to 10th Apr. 2007.
- **Abdel-Magid, H.I.M.**, "GIS-Based Hydrological Modelling for Darfur Area", held at Civil Engineering Department, College of Engineering, Sudan University of Science and Technology (SUST), Khartoum, Sudan, 20 Nov. 2006.
- **Abdel-Magid, H.I.M.**, "Usage of Computer to Estimate Sediment Transport Rate in Open Channels", The Monthly Seminar, Organized by Interdepartmental Relations Committee at Institute for Technological Research, held at Lectures Hall, The National Center for Research, Khartoum, Sudan, 21 Jul. 2004. (In Arabic).

CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED:

- Analytical Methods in Water Quality Assessment, Organized by Sudan University of Science & Technology (SUST) in collaboration with International Organization for Migration (IOM), held at Badi Lecture Hall & Water Laboratory, College of Water & Environmental Engineering - Sudan University of Science & Technology, Khartoum, Sudan, 19th to 30th Dec. 2010 (Steering committee member + Attendance & Participation).
- Qatar Sustainability Conference "Energy and Water Efficiency" (QSC 2010), Organized by IFP Qatar, held at Doha Exhibition Centre, Doha, Qatar 13th to 15th Apr. 2010 (Attendance).
- Seminar on Structure & Pipe Analysis, Design & Detailing, organized by Bentley Systems Inc., held at the conference hall of Sheraton-Doha Hotel, Qatar 03rd Apr. 2010 (Attendance).
- Introductory Course to Nanoscience & Nanotechnology, organized by Sudan Academy of Sciences (SAS) in collaboration with Institute for Technological Research (ITR), held at the conferences hall of the National Centre for Research (NCR), Khartoum, Sudan 26th to 28th Jun. 2007 (Steering committee member + Attendance & Participation).
- Workshop entitled: Dialogue on Water and MDG's, jointly organized by Sudan Academy of Science and Technology (SAS) and Water Technology Society (WTS), held at the conferences hall of the National Centre for Research (NCR), Khartoum, Sudan, 21st Jun. 2007 (Steering committee member + Attendance & Participation).
- Seminar on Industrial Development, an activity accompanying the First International Industrial Technologies Exhibition, organized by Ministry of Industry, Republic of Sudan, held at the conferences hall, Sudanese Banks Union, Khartoum, Sudan, 24th to 28th Apr. 2007 (Attendance & Participation).
- Workshop on Research Outcomes and Its Role in Development: Experience of Institute for Technological Research (ITR), jointly organized by National Centre for research and Ministry of Environment and Physical Development, held at the conferences hall, Sudanese Banks Union, Khartoum, Sudan, 9th to 10th Apr. 2007 (Steering committee member + Attendance & Participation).
- Global Scientific Challenges: Perspectives from Young Scientists), International Council for Science (ICSU), held at Lindau city hall, Lindau, Germany, 4th to 6th Apr. 2007 (Attendance & Participation).
- National Project Management Meeting and National Workshop on the Establishment of Qualification and Certification Scheme for NDT Personnel in Sudan, Organized by Sudan Atomic Energy Commission (SAEC) in collaboration with Malaysian Nuclear Agency (MNA), held at Police Club Hall, Khartoum, Sudan, 3 - 4 March 2007 (Attendance & Participation).
- Review Workshop on Technical Standards and Manuals for Eleven Water Supply and Sanitation Facilities, Organized by National Water Corporation (NWC) and UNICEF, held at Grand Holiday Villa, Khartoum, Sudan, 18-19 December 2006 (Attendance & Participation).
- Scientific Exhibition for Creativity and Invention, and activities of the Scientific Forum for Engineering and Computer Students, Organized by Association for The Promotion of Scientific Innovation (APSI), held at Friendship Hall, Khartoum, 12-14 December 2006 (Member of the higher exhibition committee + Attendance & Participation).
- Scientific Forum for Engineering and Computer Students, Organized by Association for The Promotion of Scientific Innovation (APSI), held at Friendship Hall, Khartoum, 20-22 December 2005 (Attendance & Participation).

- Workshop on Relaunching Sudan Water Partnership, Organized by Ministry of Irrigation and Water Resources in collaboration with Water Technology Society with the support of Global Water Partnership Eastern Africa Region, held at Arab Organization for Agricultural Development Conference Hall, Khartoum, 11-12 December 2004 (Member of the assistant steering committee + Attendance & Participation).
- Conference on Quality Management and Accreditation of Higher Education in the Arab World, The Third International Convention on Education & Training (Academia Egypt 2004), under the Auspices of the League of Arab States and the Ministry of Higher Education & Scientific Research, Intercontinental Semiramis Hotel, Cairo 24th to 26th Nov. 2004 (Participation).
- Workshop on Nile Decision Support Tool, held at Marawi Reservoir Project Headquarters, Ministry of Irrigation and Water Resources, 10 - 15 Jul. 2004, Khartoum (Attendance & Participation).
- 3rd Arab Student Innovation Activity Conference about "Environment", Organized by Arab Council for Training Students of Arab Universities & Khartoum University, held at Al-Sharja Hall, Khartoum, 23rd to 25th Oct. 2000. (Presentation of paper & Attendance).
- Series of seminars on Globalization, Organized by the Ministry of Higher Education and Scientific research, 1998 (Attendance).
- Seminar on Coordination of Efforts of Knowledge Taseel & Islamization, Organized by Ministry of Higher Education & Scientific research Implementation of Islamic Shariaa Support fund Al Shuhada Hall, University of Holly Quran & Islamic Sciences, 6 - 7 May 1998, Omdurman (Attendance).
- Seminar on University Book Taseel & Islamization, Organized by Ministry of Higher Education & Scientific research, Juba University, AlMoutamar AlWatani, Sudan University for Science & Technology, held in 28th Feb. 1998 at College of Technology & Human Development, SUST (Attendance).
- Seminar on Writing & Publishing, Al Shaheed Hall, Al Mogran family Park, 19 Nov. 1997, Organized by Ministry of Higher Education and Scientific Research, Sudan University of Science and Technology & Juba University, Khartoum, (Attendance).

COMPUTER SKILLS:

General Skills:

- Computer system operation (DOS, Windows, MacOS & Linux).
- Office work processing software (MS Office full package and OpenOffice.Org package).
- Several programming languages (QC, VC#.Net, VB.Net, VBA, C++, and Qt).

Engineering Skills:

- Engineering drawing & detailing software (AutoCAD).
- Structural analysis and design software (Prokon, ETABS, Adapt PT, CSI Col, and SAFE).
- Water supply and wastewater systems design software (EPA SWMM, WaterCAD, WaterGEMS, StormCAD and Piping Systems FluidFlow).
- Professional GIS software packages (ESRI ArcGIS, GRASS, and ILWIS).

REFEREES:

Available upon request.