

PERSONAL INFORMATION



Farid Abdelbaky Ibrahim Abdelaal Radwan

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Sex Male | Date of birth 1 Oct 1991 | Nationality Egyptian

WORK EXPERIENCE

Feb 2015–Present

Researcher

Shaikh Mohammad Alamoudi Chair for Water Researches, Riyadh (Saudi Arabia)
Scientific researches and laboratory experiments.

Jun 2014–Jan 2015

Engineer

The General Organization for Export and Import Control (GOEIC), Cairo (Egypt)
Examination of cars spare parts.

Jan 2013–May 2014

Landscape engineer

Green Zone company, Cairo (Egypt)
Landscape maintenance.

Jul 2012–Dec 2012

Implementation engineer

MICOLAND company, Cairo (Egypt)
Implementation of landscape irrigation and drainage networks.

EDUCATION AND TRAINING

Feb 2015–Jan 2018

Master of Science in Agricultural Engineering (Systems Engineering of Water & Irrigation)

King Saud University, Riyadh (Saudi Arabia)

Master thesis title "Integrated Hydrologic Modelling Using Geographic Information Systems to Mitigate Rainwater Flood Risk in The Riyadh Metropolitan Area"

Sep 2013–Jun 2014

Post-graduate courses in Irrigation engineering and drainage.

Ain Shams university, Faculty of Agriculture, Agricultural Engineering department, cairo (Egypt)

Sep 2008–Jun 2012

Bachelor of sciences "Excellent with the honor degree (The second on my group)" in Agricultural Engineering.

Ain Shams university, Faculty of Agriculture, Agricultural Engineering department, cairo (Egypt)

15 Sep 2015–17 Sep 2015

Climate Change Adaptation for Water, Food and Environment Security 2nd part

Regional Training Sector for Water Resources and Irrigation of Egypt and CIHEAM
Mediterranean Agronomic Institute of Bari, 6 of October (Egypt)

13 Jun 2015–15 Jun 2015	Climate Change Adaptation for Water, Food and Environment Security 1st part Regional Training Sector for Water Resources and Irrigation of Egypt and CIHEAM Mediterranean Agronomic Institute of Bari, 6 of October (Egypt)
3 Jul 2011–28 Jul 2011	Training course on pumps at different sectors in Allweiler-Farid Pumps company Allweiler-Farid Pumps company, Cairo (Egypt)
5 Feb 2011–24 Feb 2011	On-farm irrigation and drainage systems Agricultural Engineering Researches Institute (AENRI), Giza (Egypt)
18 Jan 2015–22 Jan 2015	Total quality management program and application methodology Airport Training Center, The General Organization for Export and Import Control (GOEIC), Cairo (Egypt)
9 Nov 2014–13 Nov 2014	Internal audit according to ISO 17025:2005 Airport Training Center, The General Organization for Export and Import Control (GOEIC), Cairo (Egypt)
14 Sep 2014–18 Sep 2014	Awareness of quality system and laboratory quality systems (ISO/IEC 17025:2005) Airport Training Center, The General Organization for Export and Import Control (GOEIC), Cairo (Egypt)

PERSONAL SKILLS

Mother tongue(s) Arabic

Foreign language(s)

English	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	C1	C1	C1	C1	

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

- Scientific research.
- Presentation skills.
- Interviewing skills.
- Communication skills.
- Marketing management.
- Business report writing.
- Project management.
- Leadership skills.
- Teamwork skills.
- Problem-solving techniques.

- Job-related skills**
- Very good knowledge of agriculture engineering concepts especially irrigation and drainage engineering.
 - Design, management, and maintenance on-farm and landscape irrigation networks.
 - Very good knowledge of Geographic Information System (GIS) and Remote Sensing (RS).
 - Identifying flood-prone areas and mitigating flood risks.
 - Identifying suitable sites for rainwater harvesting.
 - Very good knowledge of runoff estimation, identifying morphometric parameters, hydrologic frequency analysis, and statistical analysis.
 - Mastering much software such as (AutoCAD 2D, ArcGIS, ENVI, WMS, HYFRAN, HydroCAD, Google Earth).

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Independent user	Proficient user	Proficient user

Digital skills - Self-assessment grid**ADDITIONAL INFORMATION****Projects**

- **B.Sc graduation project:** The bachelor graduation project was the implementation of Tesla turbine to generate energy from the pressure of fluids (2012).
Advisor: Prof. Mahmoud Ahmed El-Nono.
Project grade: Excellent.
- **AWC project:** Hydrologic Characteristics and Flood Risk Analysis for Major Watersheds in the Arabian Peninsula

Publications**Published papers**

- Watershed morphometric analysis of Wadi Baish Dam catchment area using integrated GIS-based approach.
Paper link: (<https://link.springer.com/article/10.1007/s12517-017-3046-5>)
- Estimating potential direct runoff for ungauged urban watersheds based on RST and GIS.
Paper link: (<https://link.springer.com/article/10.1007/s12517-018-4067-4>)

- Flood risk assessment and mapping using AHP in arid and semiarid regions.

Paper link: (<https://link.springer.com/article/10.1007/s11600-018-0233-z>)

Papers in reviewing

- Analyzing Urban Watersheds Morphometric in Arid and Semiarid Regions Using Geographic Information System.

Papers in processing

- Rainwater harvesting in Riyadh metropolitan area.
- Define drought direction in KSA based on SPI.

Other ideas for publishing

- Define the main wadis in any region for different uses.

- Solar farm suitability sites using geographic information system.
- Land use land cover change detection in any region.
- Development hydrograph for urban watersheds.

Citations

- Geomorphometric Characteristics and Associated Land Use/Land Cover in Sajnam Basin: A Remote Sensing and GIS Based Approach.

Paper link: (<http://techjournals.stmjournals.in/index.php/JoRSG/article/view/39>)

- Geomorphic characteristics of a bedrock river inferred from drainage quantification, longitudinal profile, knickzone identification and concavity analysis: a DEM-based study.

Paper link: (<https://link.springer.com/article/10.1007/s12517-018-4039-8>)

- Morphometric analysis of Vaitarna and Ulhas river basins, Maharashtra, India: using geospatial techniques.

Paper link: (<https://link.springer.com/article/10.1007/s13201-018-0801-z>)

- Flood risk assessment and mapping using AHP in arid and semiarid regions.

Paper link: (<https://link.springer.com/article/10.1007/s11600-018-0233-z>)

- Geo-spatial technique-based approach on drainage morphometric analysis at Kalrayan Hills, Tamil Nadu, India.

Paper link: (<https://link.springer.com/article/10.1007/s13201-019-0899-7>)

- Structural Geophysics Investigations using GIS and DC Resistivity Techniques: Hydrogeological Implications of Wadi Ramleya, Eastern Desert, Egypt.

Paper link: (<https://www.ajouronline.com/index.php/AJAS/article/view/5500>)

Conferences

- The 8th International Conference on Water Resources & Arid Environments (ICWRAE 8), Riyadh (Saudi Arabia).
- The 7th International Conference on Water Resources & Arid Environments (ICWRAE 7), Riyadh (Saudi Arabia).
- Cultivation multi-benefit trees is a national wealth, Riyadh (Saudi Arabia).
- The industry of modern agriculture and sustainable development, Riyadh (Saudi Arabia).

Honours and awards

- Second place in my bachelor band.
- First place in Nobel Prize Simulation Model in engineering.
- Certificate of appreciation and honor of Creators Union of Arab (C.U.A) for this research and its teamwork.

Computer skills

- Microsoft office.
- Win XP, 7, 8, 8.1, 10.
- AutoCAD 2D.
- ArcGIS.
- ENVI.
- WMS.
- HYFRAN.
- HydroCAD.

- Google Earth.
- MATLAB (Matrix Laboratory).
- Statistical analysis (Minitab).

Personal development and self-skills

- Problem-solving and decision-making.
- Emotional Intelligence.
- Speed Reading.
- Writing research plan for the Master's and doctoral.
- Creative thinking skills.
- Secrets of the first day of your career.
- Information security and informatics crimes.
- Kaizen continuous improvement system.
- Plan your future education and career within 60 minutes.
- Search skills in Dar Almandumah databases.
- Search skills in ProQuest databases.
- Write and compile scientific references by EndNote software
- Scientific Research (concepts and mechanisms and ethics).
- Research skills in electronic sources of information.
- Dropbox cloud storage.
- Total quality management program and application methodology.
- Internal audit according to ISO 17025:2005.
- Awareness of quality system and laboratory quality systems (ISO/IEC 17025:2005).
- First Aid.

Hobbies

- Reading.
- Football.
- Social activities.
- Scouts (I've got the scout's world award).