

Personal Information**Omar Al Masalmeh**

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- 💬 **Sex** male | **Date of birth** 12.07.1993 | **Nationality** Syrian

Personal Profile

I'm a civil engineer with two master's degrees in Sustainable Engineering Design & Construction (STDC) and Water Engineering (WE). My research interests and professional passion related to hydrology & hydraulic modelling, watershed hydrology, flood risk management, Environmental Impact Assessment, remote sensing, project management and other related topics.

Education

| School / University, Country | Phase & Study Programme | Period | Awarded Documents |
|---|---|------------|--|
| Technische Universität Berlin, Germany | Master of Science (M. Sc) in Water Engineering | Jan. 2021 | Certificate of Completion & Transcript Grade 2.1 (German scale) |
| London South Bank University, United Kingdom & British University in Egypt, Egypt (Joint degree) | Master of Engineering (M. Eng) in Sustainable Engineering Design & Construction | Sept. 2019 | Certificate of Graduation & Transcript Grade 3.7 of 4 (British scale) |
| Mansoura University, Egypt | Bachelor of Science (B. Sc) in Civil Engineering | Aug. 2016 | Certificate of Graduation & Transcript Grade 62.85% |
| Superior Secondary School, Syria | Secondary Education - Scientific Section | Jul. 2011 | Certificate Grade 255 of 270 (Syrian scale) |

Work Experience

| Position & Affiliation | Period | Responsibilities |
|--|------------------|---|
| Research Assistant, Center of Sustainability & Future Studies (CSFS), British University in Egypt (BUE). | Apr. - Sep. 2017 | <p>Assists with academic research:</p> <ul style="list-style-type: none"> - Performs research work in archives, through interviews and online - Prepares literature reviews - Gathers and analyses data - Prepares materials for submission to agencies and foundations that fund research. - Prepares other articles, reports, and presentations <p>Assists in administrative duties such as:</p> <ul style="list-style-type: none"> - completing reports - Assist in organizing Competitions, workshops and conferences - Manages and replies to project-related correspondence - Attends projects' meetings - Supervises CSFS's website page |

Training

| Research Internship | | |
|---|------------------------|--|
| Position & Affiliation | Period | Topics |
| Trainee, Water Resources Research Institute, National Water Research Center, Ministry of Water Resources and Irrigation, Egypt. | 25.08 – 25.09. 2018 | <ul style="list-style-type: none"> – Introduction to WRRI departments & Units: Hydrology, Hydrogeology, Nile River Basin, Survey & Maps, Weather Forecasting. – Overview to Flash Flood Atlas Project of Egypt. – Introduction to Groundwater exploration using geoelectrical technique, Rainwater Harvesting & Artificial Recharge. – Technical office tasks: Delineation of catchments, investigate the morphology parameters, spatial and temporal climate data analysis, Numerical modelling using Watershed Modelling System (WMS), Visualization and Animation, Water resources management using GIS, forecasting, risk analysis. – Introduction to Physical Models. – Introduction to distributed hydrological model (GSSHA). <p>Brainstorming sessions, develop scientific discussions, Literature review regarding previous topics, and develop a concept note for Master Thesis.</p> |

| Vocation Training | | |
|---|--------------------------|--|
| Position & Affiliation | Period | Responsibilities |
| Survey Specialist, Surveying Way Office, Ebad El Rahman Building, Zahraa Al Seyouf Street, Alexandria, Egypt. +20 128 944 1731 Eng_Said-atai@surveyingway.com www.surveyingway.com | Dec. 2012 – Nov. 2013 | <ul style="list-style-type: none"> - Grid for the construction projects, - Drawing contour maps, - Render Data using Graphics Display Modules, - Locates foundation points (piles), - Working on: Total Station, Level, Theodolite, and the related software (Surfer – AutoCAD – Prolink – Land Desktop). |

PERSONAL SKILLS

| Mother tongue | Arabic | | | |
|--|--|------------|----------|----------|
| Other languages | Listening | Reading | Speaking | Writing |
| English | 6 of 9 | 6 of 9 | 7 of 9 | 6 of 9 |
| Academic IELETS with overall bands 6.5 of 9 (18EG008632AL001A) <i>English was the official language for my undergraduate & all postgraduate studies</i> | | | | |
| French | 22 of 25 | 23.5 of 25 | 23 of 25 | 22 of 25 |
| Diplôme d'études en Langue Française (DELF A2): 90.5% | | | | |
| Dutch | 7 of 10 | | achieved | |
| | Tilburg University Language Center (Delftse Methode niveau A2) | | | |

Digital Competence

| Software | Hours / Period | Place | Evaluation |
|---|---|----------------|---|
| Surface water modelling | Hydroinformatics modelling system (hms) | 21 hr | PC-Pool, TU Berlin Campus El-Gouna |
| | GSSHA | 16 hr | Egyptian Water Resources Research Institute |
| | HEC-RAS | 3 months | Self-Education |
| | HEC-HMS | 3 months | |
| | KW-GIUH | 3 months | |
| Groundwater modelling | FEFLOW | 24 hr | PC-Pool, TU Berlin Campus El-Gouna |
| | DiaTran | 21 hr | |
| | Modflow | 1 month | |
| Close channel flow | EPANET | 15 hr | Self-Education |
| WWTP simulation | SIMBA | 24 hr | |
| Hydrogeochemical Programming | Phreeq | 16 hr | PC-Pool, TU Berlin Campus El-Gouna |
| Programming | Python | 4 months | Online Courses |
| GIS and survey | ArcMap 10.5 | 3 ECTS | PC-Pool, TU Berlin Campus El-Gouna |
| | QGIS | ----- | Very Good (self-assessment) |
| | CITY ENGINE | 21 hr | GIS Lab, Faculty of Engineering, BUE |
| | Surfer – Prolink & Land Desktop | 4 months | Very Good (Certificate) |
| Drawing engineering | Revit Structure | 24 hr | Very Good (Certificate) |
| | Revit Architecture | 30 hr | Scientific Computing Center – Mansoura University |
| | AutoCAD 2D | 24 hr | |
| Photoshop CS6 | ----- | Self-Education | Fair knowledge (self-assessment) |
| SPSS Statistics | ----- | | Excellent (self-assessment) |
| Microsoft Office™ tools, windows and internet | ----- | | Excellent (self-assessment) |

Organisational / managerial skills

| Course, Organization, or Event | Position | Period / Hours | Responsibilities |
|--|------------------------------------|------------------------|--|
| Project Management Professional (PMP) | Trainee | 40 hr | ---- |
| Green Heritage Conference: Chance - Change – Challenge, Centre of Sustainable and Future Studies (CSFS), BUE | Member in the organizing committee | May 2017 –Mar. 2018 | Attend meetings, discuss agenda, set deadlines, adopt appropriate designs and print brochures, communicate with authors and scientific committee for publications. |
| Logo Competition of Farouk El-Baz Forum for Younger Generations , CSFS, BUE | | Apr. 2017 - Mar. 2018 | |
| First Scientific Conference of the Research and Innovations of Foreign Students, Mansoura University | | Sept. 2015 – Apr. 2016 | |
| Syrian Student Association at Mansoura University (SSAMU) | Founder President | Jul. 2015 –Apr. 2016 | Leading a team of 84 undergraduate students. |

Event Participating

Conferences & Workshops

Academic

- Online Course: **Programming for Everybody (Getting Started with Python)**, 13 February 2021, University of Michigan, Coursera
- Webinar: **Transboundary Water Governance in the Arab World**; International Water Resources Association, 26 January 2021, online
- **Cairo Water Week**, 18-22 October 2020, Online
- Speaker in the symposium: **Civil Society and the Crisis of Renaissance Ethiopian Dam**, Arab Organization for Human Rights, 27 September 2020, Online
- Online Course: **Python Programming for Hydrologists**, BIMarabia, 13 August 2020
- **Serious Gaming Webinar**, Netherlands National IHP-HWRP Committee, 11 May 2020, Online
- Workshop: **Youth and Young Water Professionals Consultation on IHP IX**, 26 November 2019, IHE Delft, Netherlands
- **Twenty-Second International Water Technology Conference (IWTC22)**, 12-13 September 2019, Ismailia, Egypt
- Competition: **Civilization Rights to Build Civilization**, Center of Sustainability & Future Studies, British University in Egypt, June-November 2019, Cairo, Egypt
- **Excursion**, Egyptian Holding Company for Water & Wastewater, 12-16 August 2018, Cairo
- **The International Conference & Exhibition for Water & Infrastructure of the New & Sustainable Cities in Africa & the Middle East**, 17-19 October 2017, Cairo
- COSIMENA Summer School 2017 – Water Cluster: **Training for Innovation – How science and technology can contribute to a better life for all**, DAAD Office Cairo, in cooperation with the Arab Academy for Science, Technology & Maritime Transport, 16–29 Sep 2017, Alexandria, Egypt
- Symposium: **History of Khedive Cairo**, Cairo Governorate, 05 July 2017, Cairo
- Workshop: **Integrating the culture of sustainability into the young generations, the Corridor of Development of Egypt Initiative**, CSFS, BUE, 21-23 June 2017, Ciro
- First Scientific Conference of the Research and Innovations of Foreign Students, Mansoura University, 18–19 April 2016, Mansoura, Egypt
- **Egyptian Engineering Day (EED)**, 10-11 September 2014, Cairo
- **First Annual Conference of the Planning and Management of Projects**, American University in Cairo (AUC), 23 august 2014, Cairo

Political

- Workshop: **Election System and Process**, International Foundation for Electoral Systems (IFES), 15-17 December 2020, Online
- **Diplomacy Training**, Ministry of Foreign Affairs, 04-08 November 2019, Ankara, Turkey
- Workshop: **Politics in the Netherlands and Human Rights**, Foundation Max van der Stoel, 26th October 2019, Amsterdam , Netherlands
- Workshop: **The Election Context in the Syrian Constitution**, Central Election Commission of Bosnia & Herzegovina, 19-25 May 2019, Sarajevo, Bosnia & Herzegovina
- Workshop: **The Election Context in the Syrian Constitution**, IFES, 24-25 February 2019, Istanbul, Turkey
- Conference: **Consultative League of the National Democratic Opposition in Syria**, 03-05 April 2017, Cairo, Egypt
- **Syrian Political Opposition Conference**, 08-09 June 2015, Cairo
- **Syrian Political Opposition Conference**, 23–24 January 2015, Cairo
- Workshop: **Media Training for Politician Activists**, National Coordinating Body for the Forces of Democratic Change, 22–27 October 2013, Online

Civil Society

- Workshop: **Modernization of Penal Legislation in Egypt**, Arab Organization for Human Rights (AOHR), 07 April 2019, Cairo
- International Observer: **Presidential Elections in Egypt 2018**, Egyptian National Election

Authority, 16-18 March 2018, Egypt

- Symposium: **Challenges of Human Rights Protection in the Context of Regional Turmoil**, AOHR, 02 October 2017, Cairo
- Workshop: **Towards Developing the Penal Legislation in the Light of Constitutional Entitlements**, AOHR, 15 -16 Mai 2017, Cairo
- Workshop: **Yemen: Development Challenges in the Context of Conflict**', AOHR, 19 April 2017, Cairo
- **A Series of Round-Table Meetings regarding Syrian Crises**, AOHR, October 2014 – Presence, Cairo

Publications

Dissertations

- Almasalmeh, O., 2020. *Master Dissertation: Rainfall-Runoff and Sediment Transport Modelling of Wadi Billi, Egypt*, Water Engineering Department, Technische Universität Berlin Campus El-Gouna.
- Almasalmeh, O., 2019. *Master Dissertation: Storm Flow Generation in Ungauged Watersheds based on Geomorphological Characteristics: Case Study of Billi Drainage Basin, Egypt*, Cairo: British University in Egypt.
- Mahmoud, A., Almetwally, A., Mesbah, A., Othman, M., Ramadan, T., Alhamahmi, A., Awad, A., Shiha, M., Badran, A., **Almasalmeh, O.**, 2016. *Bachelor Dissertation: The effect of Nominal Size Maximum of Aggregates on Concrete Compression Strength*, Mansoura, Faculty of Engineering, Mansoura University.

Journal Papers

- Paper under review: Almasalmeh, O. & Saleh A. A., 2021. “**Suitable Hydrological Approach for Rainfall-Runoff Modelling within Ungauged Wadi Systems: Case Study of Wadi Billi, Egypt.**” *Water Resources*.
- Paper under review: Almasalmeh, O. & Eizeldin, M.. 2021. “**Understanding Storm Flow Generation Within Wadi Systems based on Geomorphological Characteristics: Case Study of Wadi Billi, Egypt.**” *Modeling Earth Systems and Environment*.
- Almasalmeh, O., Saleh, A.A. & Mourad, K.A. **Soil erosion and sediment transport modelling using hydrological models and remote sensing techniques in Wadi Billi, Egypt.** Model. Earth Syst. Environ. (2021). <https://doi.org/10.1007/s40808-021-01144-1>
- Almasalmeh, O. & Eizeldin, M.. 2020. “**Flash Flood Modelling of Ungauged Watershed Based on Geomorphology and Kinematic Wave: Case Study of Billi Drainage Basin, Egypt.**” *International Water Technology Journal* 10 (3): 193-205.
- Almasalmeh, O. & Eizeldin, M.. 2019. “**Quantitative Analysis of Watershed Geomorphology and its Hydrological Implications using GIS Techniques: Case Study of Billi Drainage Basin, Egypt.**” *International Water Technology Journal* 9 (4): 141-165.

Conference Papers

- Abstract under review: Almasalmeh, O., Saleh A. A. & Khaldoon A. M., 2021. **Groundwater Recharge from Flash Floods: A Case Study from Wadi Billi, Egypt.** Paris, Second International UNESCO Conference on transboundary aquifers ISARM II.
- Abstract accepted: Almasalmeh, O. & Eizeldin, M., 2020. **Storm Flow Generation in Ungauged Watersheds based on Geomorphological Characteristics: Case Study of Billi Drainage Basin, Egypt.** Kyoto, Fifth International Symposium on Flash Floods in Wadi Systems.

Reports

- Research report: Reliability of Satellite Data in Hydrological Applications, *in Partial Fulfilment of the requirements of Colloquium Module, M.Sc in Water Engineering, TU Berlin*

Campus El-Gouna, 20 June 2020

- Group report: **Promoting Quality of Life using Green Roof & Living Wall Systems**, *in partial fulfilment of the requirements of Sustainability and Green Applications Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 26 January 2019
- Report: **Ancient Egyptian's Heritage Manufacturing: Case Studies of CHANEL Métiers d'Art 2018-19 and Alabaster Manufacturing at Luxor**, *in partial fulfilment of the requirements of Sustainability & Heritage Value Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 09 January 2019
- Report: **Flash Flood Management Optimization using Lean Approach**, *in partial fulfilment of the requirements of Lean Construction for Sustainability Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 15 December 2018
- Literature review report: **Building Research Establishment Watford Innovation Park: Green House Barrat, Flood Resilient Unit, and Mohne Dam**, *in partial fulfilment of the requirements of Sustainability and Green Applications Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 15 November 2018
- **Protection Zones and Vulnerability Assessment of Drinking Water Wells**, *in Partial Fulfilment of the requirements of Applied Hydrogeology Module, M.Sc in Water Engineering, TU Berlin Campus El-Gouna*, 18 August 2018
- **3D Numerical Modelling of Groundwater using FEFLOW**, *in Partial Fulfilment of the requirements of Applied Hydrogeology Module, M.Sc in Water Engineering, TU Berlin Campus El-Gouna*, 03 August 2018
- Group report: **Innovation as a Strategic Approach for Enhancing Capabilities of Organisations in the Construction Industry**, *in partial fulfilment of the requirements of Strategic Management for Construction Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 28 May 2018
- Group report: **Reducing Site Accidents through Using Construability for Construction Site Layout**, *in partial fulfilment of the requirements of Constructability Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 20 May 2018
- Report: **Strategies for International Construction**, *in partial fulfilment of the requirements of Strategic Management for Construction Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 10 April 2018
- **Proposal: Civilization Builders for Green Syria**, HOPES CFP Nuffic on behalf of Farouk El-Baz Center for Sustainability and Future Studies (FECSFS), The British University in Egypt (BUE) 20 Feb 2018. (*not funded*)
- Group report: **Smart Materials in Architecture Engineering: Case study of Sarphatistraat Offices Building**, Amsterdam, *in partial fulfilment of the requirements of Sustainable Energy & Material Use Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 20 January 2018
- Group report: **Green Smart Building**, *in partial fulfilment of the requirements of Green Smart Material Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 17 January 2018
- Group report: **Sustainable Building Design**, *in partial fulfilment of the requirements of Principles of Sustainable Built Environment Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 15 January 2018
- Proposal: **Green Shelter to Enable Refugee's Community**, *in partial fulfilment of the requirements of Green Smart Material Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 12 November 2017
- Poster: **Japanese Green Building Rating System (CASBEE)**, *in partial fulfilment of the requirements of Green Smart Material Module, M.Eng in Sustainable Engineering Design & Construction, The British University in Egypt (BUE)*, 05 October 2017
- **PPT Presentation: Smart City for Sustainable Community**, COSIMENA Summer School 2017 “Training for Innovation – How science and technology can contribute to a better life for all”, Alexandria, Egypt 16–29 September 2017

- **Article-Ar: Water Security in Syria (Syria - the occupier Entity Zionist),** National Coordination Body, Damascus, Syria 13 September 2016
- **Article-Ar: The Syrian - Turkish Relations and their Impact on the Syrian Water Security,** National Coordination Body, Damascus, Syria 04 July 2016
- **Literature Review Report in Airports Engineering** Mansoura 20 December 2015

Civil Society & Political

- **French magazine,** *in Partial Fulfilment of the requirements of French language course B1.1,* Editor in Chief, Mansoura 14 February 2017
- **The First Annual Report,** Syrian students Association at Mansoura University, author, 01 January 2017
- **Regular yearly student magazine "Zenobia Magazine",** Editor in Chief and publisher, Mansoura April 2016 – April 2017
- **Regular monthly political magazine "Journal of the National Coordinating Body (NCB)",** Editor in Chief and publisher, Cairo 01 December 2015 – 30 November 2016
- **PPT Presentation "The Syrian Crises",** Egyptian Karama Party, Mansoura 11 December 2014

ADDITIONAL INFORMATION

Memberships

- Nordic Association for Hydrology (NHF), 29 March 2020 - presence
- International Association of Hydrological Sciences (IAHS), 12 August 2019 - presence
- The Arab Organization for Human Rights (AOHR), 2017-Presence
- COSIMENA Water Cluster, September 2017 - presence
- Syrian Assembly Service in Egypt, 02 September 2015- June 2016
- Syrian Students Association at Mansoura University (SSAMU), 12 July 2015 – Presence
- Syrian Community in the Arab Republic of Egypt, June 2013 - May 2014
- National Coordinating Body for the Forces of Democratic Change, March 2011 - Presence
- Democratic Arab Socialist Union Party, 2009-2017

Honours and awards

- **Certificate of Best Research Paper,** Water Resources Planning and Management (A), Twenty-Second International Water Technology Conference, 12-13 September Ismailia, Egypt.
- **Master scholarship,** M.Eng in Sustainable Engineering Design & Construction, British University in Egypt, February 2018
- **DAAD master scholarship,** M.Sc in Water Engineering, TU Berlin, September 2017
- **Cup – Second Place,** Initiative Competition "Choose your way", Faculty of Physical Education, Mansoura University, 21 April 2017
- **Glass Shield – First place,** First Conference of Students Initiatives at the Egyptian Universities, 25-26 Mars 2017
- **Certificate of Appreciation,** Representative of Iraqi Students 12 June 2016
- **Certificate of Appreciation,** International Students Affairs Administration, Mansoura University, 28 April 2016
- **Copper Shield,** First Scientific Conference of the Research and Innovations of Foreign Students, Mansoura University, 19 April 2016

Communication skills

- Good team-leading skills, as the representative of Syrian Students in Mansoura University.
- The ability to work under pressure / handling problems / making critical decisions / Work team / The ability to negotiate / learning new tasks easily and effectively, the skills gained through my political experience

- International communication experience, as lived in different countries, studied in many universities

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|------------------|--|
| Other skills | First aid: Training stages with the Syrian Arab Red Crescent (First Aid for Beginners - Advanced First aid - Disasters Management), Daraa, Syria, 2006 |
| Driving licence | Private Driving Licence (Type B, No 418564), Syria |
| Hobbies & sports | Badminton & Reading |

REFERENCES

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