Curriculum vitae

**Proposed role in the project:**

**Family name: Hasan**

**First names: Abdel Fattah**

**Date of birth:** 16/03/1975

**Nationality:** Palestinian

**Civil status:** Married

**Education:**

|  |  |
| --- | --- |
| Institution(Date from - Date to) | Degree(s) or Diploma(s) obtained: |
| University of Miami, Coral Gables, FL, USA2006-2009 | Ph.D., Civil and Environmental Engineering |
| University of Texas, Lyndon Baines Johnson School of Public Affairs. 12/2004 –01/2005 | Twenty First Century Water Management Course |
| Birzeit University, Birzeit, Palestine, 2000-2004 | M.A. Water Engineering |
| SRP GmbH/SETEC Engineering. Jenin, 6 weeks in 2000 | Leak detection and management of unaccounted for water |
| Mutah University, Al-Karak, Jordan,1993-1998 | B.E. Chemical Engineering |

**Language skills:** Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Language | Reading | Speaking | Writing | |
| Arabic | 1 | 1 | 1 |
| English | 1 | 1 | 1 |

**Membership of professional bodies:** Jordanian / Palestinian Association of engineers, International Water Association (IWA), Member of the Water Resources Committee of the Arab Engineering Federation, Cairo.

**Other skills:** Computer Skills: Windows and Microsoft Office, Design-software: AutoCAD, WaterCAD, SewerCAD, StormCAD, Flow Master & EPANET. Programming: FORTRAN & Matlab. Statistical software: SAS, SPSS, SigmaPlot & Sigma STAT Modelling software: GPS-X, AQUASIM, QUAL2kw, MODFLOW, STOAT, HYDRAUNATICS, and GPS-X.

**Present position:** Local freelance consultant

**Years within the firm**: -

**Key qualifications:**

* 18 years of experience in the field of water, wastewater and other environmental aspects, with technical and managerial capacities.
* Long experience with the local environment; worked as Municipal Engineer for 6 years at Jenin Municipality, involved in monitoring, inspecting, reporting and enforcement of water and aquatic environment regulations.
* Experience in monitoring, inspecting, and reporting of water and aquatic environment regulations. Sound knowledge about the judicial system in Palestine in regards to water and environment laws, regulations, prosecution and court trials.
* More than 8 years of academic teaching and research in the field of water and environmental systems.
* Fluent in both Arabic and English.
* Excellent in computer processing.
* Advanced reporting skills.
* Sound knowledge of and experience of working with public utilities, water supply and wastewater collection, treatment and management
* Able to develop and conduct quality assurance/ quality control programs.
* Ability to design sustainable development schemes, provide capacity building, institutional development and human resources development in the field of water and wastewater management.

**Specific experience in the region**:

|  |  |
| --- | --- |
| Country | Date from – Date to |
| Palestine | 1998-2006; 2009-ongoing |

**Professional experience:**

| **Date (from-to)** | **Location** | **Company& reference person (name & contact details)** | **Position** | **Description** |
| --- | --- | --- | --- | --- |
| 06/2010– to date | Nablus, Palestine | Civil Engineering Department – An-Najah National University,  Dr. Khaled Al-Sahili, [alsahili@najah.edu](mailto:alsahili@najah.edu) | Assistant Professor of Civil and Environmental Engineering | Faculty member teaching several engineering, water and wastewater courses.  Teaching various courses for the Master Programs of Water and Environmental Engineering, Environmental Science, and Engineering Management.  Supervise theses of masters’ students. |
| 05/2016- 12/2017 | Palestine | ORGUT Consulting AB   |  |  | | --- | --- | | |  | | --- | | Torbjörn Öckerman | |   torbjorn.ockerman@orgut.se | Key Expert – Water and Wastewater Sectors | Roadmap for the creation of the Regional Water Utilities in the frame of the water sector reform in Palestine - EuropeAid/137394/DH/SER/PS. Key Expert of Water and Wastewater Sectors and deputy to Lead Expert. Client: PWA. Donor: EUREP |
| 07/2013- 09/2016 | Nablus, Palestine | An-Najah National University  Dr. Khaled Al-Sahili, see above | Head of Civil Engineering Department (Chair) | * Manages the department daily works and prepare plans and budget for the department-activities. * Coordinator of the Masters’ Program of Construction Engineering. * Committee member of the Masters’ Program of Water and Environmental Engineering. |
| 05/2015 –05/2016 | Nablus, Palestine | CEC, GITEC and AquaWaeser  Eng. Majed Hmouda  [M.Hamouda@cecsajdi.com](mailto:M.Hamouda@cecsajdi.com) | Environment, Health and Climate Change Expert | |  | | --- | | Water and sewerage master plan for the north and north-west region of the West Bank. Analysis and master planning for the environment in the covered area, and climate change and possible mitigation and adaptation measures. Client: PWA. Donor: AFD and KfW | |
| 10/2015 – 1/2016 | Qalqilia Palestine | An-Najah National University  Dr. Khaled Al-Sahili, see above | Project Coordinator – Water, Sanitation, and Environment | Strategic Development Plan for Tubas and Qalqilia Governorates. Financed by UNHABITAT. Work included current situations strategic analysis, identifying issues of concern and solutions, including institutional development of public utilities, and planning for strategic projects. |
| 10/2015- 11/2016 | Palestine | LDK Consultants, Stavros Damianidis stavros@ldk.gr | National Expert | National policies for the establishment of water & aquatic environment prosecution and magistrates systems in two focus countries (Lebanon& Palestine). Sub-activity of the project Sustainable Water Integrated Management (SWIM). |
| 01/ 2015-05/ 2015 | Jenin, Palestine | ANERA, Eng. Naser Qadous  naser@anera-jwg.org | Consultant | Jenin Water Reuse and Food Security – Construction of tertiary wastewater treatment plant, storage pond, pumping station and irrigation networks. |
| 10/2013-06/2015 | Ramallah, Palestine | UNODC/UNDP  Prof. James Speers  james.speers@unodc.org | Consultant | Consultancy works on Environmental and Facilities Management. To draft and provide the Forensic Science Laboratory in Palestine with several plans and manuals for: Facility management; Emergency action; Building maintenance; Environmental Impacts and Mitigation Strategies for Construction and Operation of the Forensic Science Laboratory; Environmental Plan, including indoor air quality and hazardous emissions detection and monitoring; Waste and hazardous waste management; Health and safety plan, including chemical storage and handling. Ongoing support and supervision of projects’ planning, design and construction.  Capacity building of the Forensic Science Laboratory staff on EH&S. |
| 08/2011-to date | Al-Bireh, Palestine | Universal Group (UG), Nablus, Palestine  Imad Kanaan  imad@ug-maalem.com.ps  Dr. Hafiz Shaheen,  [shaheen@ug-maalem.com.ps](mailto:shaheen@ug-maalem.com.ps) | Wastewater Treatment and Environmental Expert | * Wastewater Collection and Treatment, and Environmental Expert for the Feasibility Study for wastewater disposal and treatment, and Environmental and Social Impact Assessment for South Tubas and Al Farie’a Areas Sewerage System and for Al Bireh Reuse Trunk Line to Al Ajua Area, Client: PWA. Funded by EU. * Wastewater Treatment Expert for the project of Implementation of Environmental Control Unit in Nablus, including institutional development of public utility, and proper management of industrial wastewater and septic sludge disposal. Funded by KfW. * Wastewater Treatment Expert and Consultant with UG-Maalem for the project: Wastewater Projects Selection Criteria and Prioritization. Client: Palestinian Water Authority (PWA). Funded by Austrian Aid. * Wastewater Treatment Expert and Consultant with UG-Maalem for the Modification Project of Al-Bireh Wastewater Treatment Plant. Client: Al-Bireh Municipality. Funded by: KfW * Wastewater Treatment Expert and Consultant with UG-Maalem for the project: Assessment of Acquired Regional Experience (Jordan & Israel) On Wastewater Disposal Treatment, Reuse and Sludge Management. Client: Palestinian Water Authority (PWA). Funded by: AfD. * Wastewater Treatment Expert and Consultant with UG-Maalem for Tayasir Wastewater Treatment – Feasibility Study for Wastewater Disposal and Treatment, and Environmental and Social Impact Assessment. Palestinian Water Authority (PWA). Funded by: EU. |
| 04/ 2013 –01/2016 | Nablus, Palestine | AQUA Centre, Nablus, Palestine Eng. Ammar Alkukhun  a.alkukhun@aqua.ps | Wastewater Treatment and Environmental Expert | * Assessment of Non- Revenue Water in Anabta Municipality. Client: Anabta Municipality, Donor: GIZ * Professional Services for Trans-boundary Wastewater management and Controlling Pollution. Client: PWA, Donor: The Netherlands. * Design of Advanced Wastewater Treatment and Disposal Systems for Jenin Wastewater Treatment Plant. Design included Coagulation, flocculation, sedimentation, and filtration, in addition to pumping stations and control systems of flow and quality. Client: ANERA * Design of Al-Hazem Tannery – Wastewater Treatment Plant. Client: Al-Hazam Tannery, Nablus, Palestine. |
| 10/2009 –06/2013 | Ramallah, Palestine | UDSS/ Canadian International Development Agency (formerly CIDA, currently DFATD),  [MICHELLE.TREMBLAY@acdi-cida.gc.ca](mailto:MICHELLE.TREMBLAY@acdi-cida.gc.ca) | Freelance Consultant | Helped identify and analyse key local and trans-boundary environment issues, their importance, their risks and opportunities and those specifically related to or affecting CIDA’s program priority areas. Conducted/Assisted/Updated numerous Environmental Assessment Reports. |
| 06/2005 –12/2009 | Jenin, Palestine | Al-Hadara for Engineering and Architecture, Jenin, Palestine.  Mr. Adeeb Hanouneh, Co-founder  [adeeb.hanonh@gmail.com](mailto:adeeb.hanonh@gmail.com) | Co-Founder, Consultant | Provided consultancy for water and wastewater infrastructural design projects and studies, and institutional development of public utilities. Achieved more than forty projects in the West Bank, Palestine. Works included supervising and reviewing the engineering designs, tender documents, preparing funding proposals. An investment plan including a tariff system and best management practices was followed based on the client request.  Major projects:   * Water sector master and investment plan for Qabatia city * Water network, pumping station and water storage for Arranah, Al-Shohada and Borqin * Water Network, Birzeit city, Ramallah. |
| 08/ 2006 –08/2009 | Florida, USA | University of Miami, Florida, USA.  Dr. Helena Solo-Gabriele – [hmsolo@miami.edu](mailto:hmsolo@miami.edu) | Teaching and Research Assistant | Assisted in teaching several undergraduate courses (Environmental Engineering, Water Resources, Water Quality Control, and Fluid Mechanics, Hydraulics, and Statics) and conducted two main research projects that contributed to Ph.D. dissertation. |
| 08/2003-08/2006 | Jenin, Palestine | Jenin Municipality, Palestine  Eng. Waddah Al-Labadi  [waddahlab@yahoo.com](mailto:waddahlab@yahoo.com) | Director of the Water Studies and Quality Control Division | The Water Studies and Quality Control is one division that compose the Water and Wastewater Department. Main tasks provided:   * Water quality control. * Water and wastewater networks and facilities design. * Projects management (finance, tendering, contracts awarding and supervision). * Conducting water and environment related studies. * Water losses control and reduction. * Local Project manager of the Human Resources Development Program (HRDP) funded by KfW, In addition to arranging many other capacity building and staff training programs of the water and wastewater department staff. * Coordinator of water and wastewater projects under the Emergency Municipal Support Program (EMSP) financed by the European Union. * Building partnerships with water customers for raising the awareness of the people and acquiring their feedback for water strategies and policy in the city. * Trainer of several senior students of engineering colleges in the West Bank |
| 05/2002 –08/2003 | Jenin, Palestine | Water and Wastewater Department - Jenin Municipality  Eng. Waddah Al-Labadi  [see](mailto:waddahlab@yahoo.com) above | Water Engineer | * Engineering design of water and wastewater networks and pumping stations * Supervision of rehabilitation works of groundwater wells. * Supervision of the construction and rehabilitation of water tanks, cisterns and reservoirs. * Procurement officer for the disposition fund of the German Project. * Project manager of the infrastructure rehabilitation projects under the Municipal Infrastructure Development Program (MIDP) financed by the World Bank. |
| 01/ 2000 -09/2001 | Jenin, Palestine | Eng. Waddah Al-Labadi  [see](mailto:waddahlab@yahoo.com) above | Site engineer | Member of Jenin water supply Project Implementation Unit (PIU); Jenin Water Supply Project, financed by the German Government through KfW, total Budget of 4.2 Million €. |
| 09/ 1998 –12/1999 | Jenin, Palestine | Water and Wastewater Department - Jenin Municipality  Eng. Waddah Al-Labadi, s. above | Water Quality Engineer | Planned and equipped a new water quality laboratory in Jenin Municipality by a fund from USAID and in coordination with the Palestinian Water Authority (PWA), in addition to the installation of and following up gas and liquid Chlorine metering pumps. |

**Publications in refereed journals and refereed conferences.**

* Abdulwahid, M., Alqasem, I.,**Hasan, A.R.** (Submitted). Correction of shear stress formula for cantilever beams with concentrated load at free ends. Alexandria Engineering Journal.
* **Hasan, A.R.** (2017, Accepted). Emergent Water Supply Measures During and Immediately After Crises – Case Study of Jenin Camp in 2002, The Seventh Jordanian International Civil Engineering Conference (JICEC07), Amman, Jordan, May 9-11, 2015.
* Samaro, N.; **Hasan, A.R.**; Dwaikat, M. B. (2017, Accepted). Effect of Snow Accumulation on Steel Structures in the West Bank, The Seventh Jordanian International Civil Engineering Conference (JICEC07), Amman, Jordan, March 10-12, 2015.
* Samaro, N.; **Hasan, A.R.**; Dwaikat, M. B. (2017, Accepted). Risk Assessment of Snowfall on Steel Structures in the West Bank , The 1st International Conference on Climate Change - Palestine (ICCCP), Al-Bireh, Palestine, May 8-9, 2017.
* Jaafar, A. ; A. Boussaoud, S. Jodeh, K. Azzaoui, B. Hamed, R. Salghi, G. Hanbali, **A.R. Hasan** and B. Khalaf (2016). Neu;tral red removal Using different techniques: Direct photolysis, UV/H2O2, Fenton and Photo-Fenton. Der Pharma Chemica, 8(18): 249-361.
* Errich, A., S. El Hajjaji, L. Mandi, M. Fekhaoui, B Rezzouki, S. Jodeh, K. Azzaoui, A, Lamhamdi, . O. Hamed, R. Salghi, **A.R. Hasan**, G. Hanbali (2016). Impact of Waste Water on The Physico-Chemical Quality of Water Sources In Bed of Oued Essaquia Elhamra In South of Morocco. International Journal of Application or Innovation in Engineering & Management (IJAIEM), 9(5): 249-261.
* Jodeh, S.; Khalaf, B., Radi, S.; Tighadouini, S.; Salghi, R.; Samhan, S.; Jodeh, D.; Warad, I.; **Hasan, A.R**.; Hanbali, G. (2016) Using Synthesized Polysiloxane Modified with Nitrophenyl as a Low Cost Adsorbents For Nickel Removal From Wastewater. International Journal of Application or Innovation in Engineering & Management (IJAIEM), 9(5): 232-248.
* El Makrini, B., H. Lgaz, M. Larouj, R. Salghi, **A.R. Hasan**, M. Belkhaouda, S. Jodeh, M. Zougagh, H. Oudda (2016). The inhibition performance of sulfamerazine for corrosion of mild steel in HCl. Der Pharma Chemica, 8(2):256-268.
* Afia, L., M. Larouj, R. Salghi, S. Jodeh, M. Zougagh, **A. Rasem Hasan** and H. Lgaz.(2016). Experimental and Theoretical Evaluation of Quercetin as a Novel and Eco-friendly Corrosion Inhibitor for C38 Steel in Hydrochloric medium. Der Pharma Chemica, 8(3):166-179.
* Khader, A.H.; **Hasan, A.R.** (2015). Air Quality Characterization in the city of Nablus- Palestine, The Sixth Jordanian International Civil Engineering Conference, Amman, Jordan, March 10-12, 2015.
* Shraideh, H.; **Hasan, A.R.**; Samhan, S.; Hasan, J. (2013). Modelling of Dissolved Oxygen Levels in Zimar Stream under Di:erent Scenarios. 1st International Conference of Civil Engineering (ICCE2013), Al-Bireh, Palestine, October 28-29, 2013.
* Shraideh, H.; **Hasan, A.R.**; Samhan, S.; Hasan, J. (2013). Water Quality Modelling of Zeimar Stream with Considerations of Current and Future Solutions. The 17th International Water Technology Conference, Istanbul, Turkey, November, 5-7, 2013.
* Al-Khaldi, A.; Abbadi, W.; **Hasan, A.R.**; El-Hamouz, A. (2013). Self-cleaning Advanced-treatment Filter for Effluents (SAFE): Innovative development, design and application for an efficient treatment of secondary effluents of wastewater treatment plants. Second Arab Innovation Network Annual Conference – AINAC 2013, Dead Sea – Jordan, December, 6-7, 2013.
* Abdelzaher Amir M., Mary E. Wright, Cristina Ortega, **A.R. Hasan**, Helena M. Solo-Gabriele, Tomoyoki Shibata, Jonathan Kish, Kelly Withum, Guoqing He, Samir M. Elmir, J. Alfredo Bonilla, Tonya D. Bonilla, Carol J. Palmer, Troy Scott, Jerzy Lukasik, Valerie J. Harwood, Shannon McQuaig, Chris D. Sinigalliano, Maribeth L. Gidley, David Wanless, Lisa R.W. Plano, Anna C. Garza, Xiaofang Zhu, Jill R. Stewart, Jerold Dickerson, Helen Yampara-Iquise, Charles Carson, Jay Fleisher, Lora Fleming (2011). Daily measures of microbes and human health at a non-point source marine beach. Journal of Water and Health, 9(3): 443-457.
* **Hasan, A.R.**; John Schindler; Helena Solo-Gabriele; Timothy Townsend (2011).Online sorting of recovered wood waste by automated XRF-technology. Part I: Detection of preservative-treated wood waste. Waste Management, 31, 688–694.
* **Hasan, A.R.**; Helena Solo-Gabriele; Timothy Townsend (2011).Online sorting of recovered wood waste by automated XRF-technology. Part II: Sorting efficiencies. Waste Management, 31, 695–704.
* **Hasan, A. Rasem**; Ligang Hu; Helena Solo-Gabriele; Lynne Fieber; Yong Cai; Timothy Townsend (2010). Field-scale leaching of arsenic, chromium and copper from weathered treated wood. Environ. Pollut., 158, 1479–1486.doi: 10.1016/j.envpol.2009.12.027
* Hu, L.; Diez-Rivaz, C.; **Hasan, A. Rasem**; Solo-Gabriele, H. M.; Fieber, L.; Cai, Y. (2010). Transport and interaction of arsenic, chromium, and copper in soil associated with CCA-treated wood. Chemosphere, 78(8), pp: 989-995.doi: 10.1016/j.chemosphere.2009.12.019
* **Hasan, A.R.**; Solo-Gabriele, H. M.; Townsend, T.G., (2009). Knock on wood, Research details how X-ray fluorescence technology could be the most suitable option for the sorting of recovered treated wood waste. Resource Recycling, May, 2009 issue with errata in June, 2009.
* Hu, L.; Diez-Rivaz, C.; Solo-Gabriele, H. M.; Fieber, L.; Cai, Y; **Hasan, A.R.** (2009). Transport and distribution of Arsenic, chromium, and copper in soil associated with CCA-treated wood. 237th ACS National Meeting, Division of Geochemistry, March 22-26, Salt Lake City, Utah, USA.
* **Hasan, A.R.**; Ligang Hu; Helena Solo-Gabriele; Lynne Fieber; Yong Cai (2008). Leachability of arsenic, chromium and copper from weathered treated wood. International Research Group (IRG) on Wood Protection, IRG/WP 08-50255, May 25-30, 2008. Istanbul, Turkey.

**Masters’ theses supervision– An-Najah National University**

* Lama Asmah (2016). Sustainable Improvements of Jenin Wastewater Treatment Plant. Water and Environmental Engineering - Masters’ Program, An-Najah National University.
* Samer Sawafta (2015). Environmental Gains of Solid Waste Recycling at Landfill Site, Zahret Alfinjan as Case Study. Water and Environmental Engineering - Masters’ Program, An-Najah National University.
* Abdulbaset Shuraideh (2015). Water Consumption Practices in Schools of Nablus. Directorate. Water and Environmental Engineering - Masters’ Program, An-Najah National University.
* Hanan Harb (2015). Elemental background and anthropocentric pollution of heavy metals in the top soil of Al-Qilt catchment, Palestine. Chemistry Masters’ Program, An-Najah National University.
* Leen Arafat (2015). Assessing wastewater reuse Potential in Palestine using business processes re-engineering coupled with value chain analysis as a tool: case study Nablus Governorate. Water and Environmental Engineering - Masters’ Program, An-Najah National University.
* Muhammad Saleh (2014). Exploratory Study on the Performance of   
  Recently Constructed Nablus-West Wastewater Treatment Plant   
  under different Loading Conditions. Water and Environmental Engineering - Masters’ Program, An-Najah National University.
* Hani Shraideh (2014). Water Quality Modelling for Dissolved Oxygen in Qilt Stream. Water and Environmental Engineering - Masters’ Program, An-Najah National University.
* Reem Abu-Hijleh (2014). Chemical and Microbiological Risk Assessment of Faria Watershed. Water and Environmental Engineering - Masters’ Program, An-Najah National University.
* Afaf Alawneh (2013). Water Quality and Quantity modelling for Faria Stream. Water and Environmental Engineering - Masters’ Program, An-Najah National University.
* Yaseen Jawabreh (In progress). Water Quality in Wadi Al-Faria - Fate and Transport of Nutrient, Metals and Particulate Solids. Water and Environmental Engineering - Masters’ Program, An-Najah National University

**Masters’ theses internal and external examiner**

* Nibal Batsh (2016). Factors Affecting Harvested Rainwater Quality and Quantity in Yatta Area, Palestine. Masters’ Program of Water and Environmental Engineering, Birzeit University (External Examiner).
* Hanan Hijawi (2015). [Evaluation of Solid Waste Separation and Recycling in Jenin Area](http://scholar.najah.edu/content/evaluation-solid-waste-separation-and-recycling-jenin-area), Masters’ Program of Environmental Science, An-Najah National University.
* Noor M. Al-Subu (2015). A Mathematical Model to Predict the Composition and Generation of Solid Waste and Resident’s Concerns towards Solid Waste Management Facilities in Nablus and Jenin Districts. Masters’ Program of Water and Environmental Engineering, Birzeit University (External Examiner).
* Nihal Batsh (2015). Evaluation of Delay in Palestinians’ Construction Projects. Masters’ Program of Engineering Management, An-Najah National University.
* Mustafa Mayyaleh (2014). The Use of WAS as DSS Tool for Water Management in the West Bank. Masters’ Program of Water and Environmental Engineering, An-Najah National University.
* Mariam Hashash (2014). Process Protocol (P.P) as Coordination Tools between Designer, Consultant and Contractor (Construction Sector in Palestine Case Study). Masters’ Program of Engineering Management, An-Najah National University.
* Mohammad Homeidan (2013). Assessment of Spatial and Temporal Characteristics of Groundwater Flow in Al-Faria Catchment. Masters’ Program of Water and Environmental Engineering, An-Najah National University.
* Bilal Sofan (2012). Solid Waste Management in the West Bank (Institutional, Legal, Financial Assessment and Framework Development Masters’ Program of Engineering Management, An-Najah National University.
* Ruba Al-Adham (2012). Removal of Poly-phenols from Olive Mill Wastewater using Olive Stones. Water and Environmental Engineering - Masters’ Program, An-Najah National University.