

Dr. Ramzi JABER

Renewable Energy, Smart Waste Solutions & Waste-to-Energy Consultant
Technology Evaluation | Project Development | Solar Energy | Smart Waste

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Professional Profile

Multidisciplinary consultant and Ph.D. in Computer Engineering with experience spanning renewable energy, smart waste-management technologies, technology evaluation, business development, IT systems, and engineering education. Experience includes MENA business development for IoT-enabled smart waste solutions at SENSONEO; stakeholder representation and coordination for a proposed municipal solid-waste-to-electricity project in Cairo; and technical leadership in renewable-energy and engineering solutions in Lebanon. Combines technical understanding with project coordination, solution assessment, commercial development, research, and technical training.

Consulting Highlights

- **Smart waste solutions:** MENA business development experience with IoT fill-level sensors, waste-management software, and smart-city solutions.
- **Renewable energy:** More than 400 solar-system installations delivered or supported during 2014–2026, including off-grid and grid-connected applications.
- **Waste-management projects:** Consulting and coordination experience related to a proposed 150-ton/day MSW sorting and optical-separation line and a proposed 10-ton/day pyrolysis plant.
- **Project development and liaison:** Authorized representative and liaison for a proposed 20 MW Cairo waste-to-electricity project; expected to assume operational-manager responsibilities if implemented. The project was not built or commissioned.
- **Business development:** MENA market development at SENSONEO, with annual sales targets increasing from approximately EUR 350,000 to EUR 1.1 million and achieved.
- **Technical leadership:** Founder and technical lead of JABERPC TECHNOLOGY, providing engineering, renewable-energy, software, and IT solutions.

Selected Waste Management & Renewable Energy Projects

- **Zrariyeh Municipality – Pyrolysis Plant Assessment (2017):** Consulted with Chinese companies regarding procurement and installation of a proposed 10-ton/day pyrolysis plant to process municipal solid waste into fuel oil. A 35% cost reduction was reported.
- **Tyre Municipality – MSW Sorting and Optical Separation:** Consulted with a German company and UNDP, through Green Energy, on procurement and installation planning for a 150-ton/day municipal solid-waste sorting and optical-separation line. A 22% cost reduction was reported.
- **UNDP Municipal Solar Street-Lighting Projects (2018):** Worked on off-grid solar LED street-lighting designs for Zaloutieh, Siddikine, and Qabrikha, involving more than 300 lamps. The project documentation included a centralized off-grid power-station approach with a reported 40% cost reduction.
- **Tyre Ruins – Off-Grid Solar Lighting (2018):** Worked on a design and installation project involving 60 solar LED projectors, with attention to avoiding physical impact on the archaeological site.
- **Saida – 500 kW Solar PV Plant:** Participated in design and installation work for a 500 kW solar PV project for Dar El-Yateem Association with HEHT. A 25% cost reduction was reported.
- **Additional Resource-Recovery Concepts:** Explored technology concepts involving medical waste, used tires/plastic/rubber, used engine oil, and used cooking oil for fuel or biodiesel production. These are presented as concepts and assessment topics, not as commissioned facilities.

Core Consulting Capabilities

- **Smart waste-management technologies:** IoT-enabled monitoring, fill-level sensors, waste-management software, and technology evaluation.
- **Waste-treatment and resource-recovery assessment:** MSW sorting and optical separation, pyrolysis-related project assessment, and preliminary evaluation of waste-to-fuel and energy-recovery concepts.
- **Renewable energy systems:** Off-grid and grid-connected solar PV, solar street lighting, system design and installation coordination, troubleshooting, and technical consulting.
- **Industrial and technology assessment:** Requirements analysis, solution comparison, equipment and technology evaluation, and implementation considerations.
- **Project development and partnerships:** Stakeholder engagement, cross-organizational coordination, commercial development, and technical documentation.
- **Training and technical communication:** Engineering education, user training, research, and technical reporting.

Professional Experiences

SENSONEO — Slovakia / Remote

MENA Business Development Manager *5/2021 – 12/2023*:

- Supported regional business development for smart waste-management and smart-city solutions involving IoT fill-level sensors and waste-management software.
- Developed business opportunities and engaged stakeholders across the MENA region.
- Achieved annual sales targets as the target increased from EUR 350,000 to EUR 1.1 million.
- Built practical familiarity with technology-based waste monitoring and smart waste-management solution portfolios.

ProGen & Partners (Italy) / ESS (Lebanon) – Cairo MSW-to-Electricity Project — Cairo, Egypt

Authorized Representative and Liaison; Proposed Operational Manager *8/2019*:

- Served as an authorized representative and liaison between ProGen & Partners, ESS, and Egyptian government stakeholders for a proposed municipal solid-waste-to-electricity facility in Cairo.
- Participated in project-level discussions and a meeting with Egypt's Minister of Environment, Dr. Yasmine Fouad.
- Coordinated communication among participating companies and government stakeholders and signed project-related documents.
- The proposal described a 20 MW facility, an estimated investment of approximately USD 100 million, and a proposed electricity tariff of about USD 0.25/kWh over 25 years.
- Expected to assume the operational-manager role if implemented. The project did not proceed; the facility was not built or commissioned, because of COVID19.

Supporting documentation and signed project-related records are available upon request.

JABERPC TECHNOLOGY — Lebanon

Founder & Technical Lead *2003 – Present*:

- Lead technical consulting and implementation activities across renewable energy, software, IT infrastructure, and engineering solutions.
- Delivered and supported more than 400 solar-system installations during 2014–2026, including technical troubleshooting and system-related services.
- Provide technical evaluation, requirements analysis, solution selection, implementation support, and user training.
- Develop and support business software and technology solutions.

AluMarket (Chouman Group) — Lebanon

Business Development & IT Manager *6/2005 – 12/2017*:

- Contributed to business development and IT management in an aluminum wholesale business.
- During the period of involvement, company annual sales increased from approximately USD 2.5 million to USD 6.6 million; the South Lebanon branch grew from approximately USD 300,000 to USD 1.1 million.

Notre Dame University - Faculty of Engineering LEBANON
Associate Professor (Part-time) at Shouf Campus *1/2025 – Present*:

- First author of 4 peer-reviewed publications.

Beirut Arab University – Faculty of Engineering LEBANON
Assistant Professor, Research Collaborator and Ph.D. Co-Supervisor *9/2006 – 12/2024*:

- More than 18 years of engineering teaching and laboratory instruction experience.
- Conducted and collaborated on applied and academic research, co-authored peer-reviewed publications, and supported doctoral research.
- Delivered technical instruction and mentoring in engineering and computing subjects.

Lebanese University LEBANON
IT Manager, IT Engineer, System Administrator, and Lab Instructor *10/2006 – 12/2018*:

- Supported IT systems, infrastructure, and academic computing environments across university units.

Education

- **Ph.D. in Computer Engineering**, Beirut Arab University 2016–2020
- **M.S. in Computer Engineering & Informatics**, Beirut Arab University 2008–2010
- **B.S. in Computer Engineering**, Beirut Arab University 1996–2001

Selected Professional Credentials

- Cisco Networking Academy – CCNA Instructor (2010)
- Ethical Hacker – AIAE (2019)
- Introduction to Artificial Intelligence – ICTD (2021)
- Introduction to Cyber Security – Cisco (2017)

Research & Professional Standing

- 24+ peer-reviewed publications; research interests include digital systems, embedded systems, and applied computing.
- Member, Lebanese Order of Engineers and Architects.
- Member, Institute of Electrical and Electronics Engineers (IEEE).

Languages

Arabic (Native) | English (Professional) | French (Intermediate)