



Omar Shatarat

Work permit: Italian

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ABOUT ME

Management Engineering graduate (110/110 cum laude) with a mechanical engineering background, focused on business and systems analysis, process improvement, and data-driven reporting. Experienced in working with diverse stakeholders (academic partners, public institutions, and end users) to gather requirements, align expectations, and translate needs into process models, KPIs, and structured analysis. Strong foundation in Business Process Management (UML as-is/to-be), advanced statistics, and project management. Used to working in complex, multidisciplinary environments. Italian: A2 (currently improving through daily practice and coursework)

WORK EXPERIENCE

Arianet S.r.l. Milan, Italy

Research Collaborator (CFD Modelling)

15/05/2024 – 14/12/2025

- Coordinated with multidisciplinary stakeholders to define scope, assumptions, and data requirements for environmental analysis projects.
- Translated technical inputs into structured documentation and decision-ready outputs to support evaluation of improvement scenarios.
- Validated analytical results using experimental data and iterated models to improve reliability.
- Granted access to **Leonardo supercomputer (CINECA)** for high-performance CFD simulations.

Istituto di Farmacologia Traslazionale – CNR Palermo, Italy

Research Fellow

02/05/2023 – 01/05/2024

- Contributed to research on the impacts of climate change and urban environments on human health, with a focus on environmental exposure and equity.
- Analysed environmental and exposure data related to urban air quality and supported evidence-based reporting for interdisciplinary stakeholders.
- Collaborated with researchers and public institutions to translate technical findings into structured outputs supporting planning and decision-making.

EDUCATION AND TRAINING

25/09/2023 – 09/10/2025 Palermo, Italy

Master's Degree in Management Engineering- sustainability track

Università degli Studi di Palermo

Main focus: sustainability, LCA, ESG reporting, circular economy, and data-driven decision making.

- Business performance & KPI analysis (delivery, workload, operational risks)
- Process simulation & scenario analysis (ARENA): bottlenecks, capacity, variability
- Business Process Management (UML/BPM): as-is/to-be, standardization, re-engineering
- Service quality / performance reliability analysis
- Project management: planning, coordination, monitoring, reporting

Field of study Engineering, manufacturing and construction | **Final grade** 110/110 cum laude (with honours) | **Level in EQF** EQF level 7 | **Thesis** Human-Centric Smart Factory Design – Enhancing indoor environmental quality to improve operator wellbeing. Awarded two honours for academic excellence and outstanding thesis merit.

01/09/2014 – 30/06/2018 Al Balqa, Jordan

Bachelor's Degree in Mechanical Engineering – Thermal and Hydraulic Machines Al-Balqa' Applied University

Website <https://www.bau.edu.jo/> | Level in EQF EQF level 6

LANGUAGE SKILLS

MOTHER TONGUE(S): Arabic

Other language(s):

English

Listening C1

Spoken production C1

Reading C1

Spoken interaction C1

Writing C1

Italian

Listening A2

Spoken production A1

Reading A1

Spoken interaction A1

Writing A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Requirements gathering with end users and stakeholders | Process modeling (UML / BPM as-is & to-be) | Business process analysis, | KPI definition, monitoring, and status reporting | Data handling, cleaning, interpretation, and performance tracking | Risk & opportunity identification beyond raw data status | Excel-based dashboarding (basic) | Microsoft Excel, PowerPoint, Word | ARENA (process simulation & scenario analysis) | Statistical analysis (advanced statistics, multivariate analysis) | Python (basic), R, SPSS/STATA (basic) | Project management fundamentals (planning, tracking, reporting) | Structured documentation and reporting

SUSTAINABILITY & LCA

ESG & GRI reporting | LCA | Life Cycle Assessment | SDGs | Value chain emissions | carbon footprint analysis | circular economy principles | GHG Protocol (Scope 2) | SimaPro

PROJECTS

01/09/2024 – 01/07/2025

Sustainability Reporting & LCA – Master's Degree Project

- Developed sustainability disclosures aligned with GRI Standards and SDGs for a real manufacturing company, based on direct coordination and data collection.
- Conducted site visits and interviews to gather operational and energy data and improve data quality for reporting.
- Performed Scope 2 GHG accounting using the GHG Protocol and translated results into report-ready disclosures.
- Built Bills of Materials (BoM) for real products and estimated embodied energy / embodied impacts to support product footprint understanding.
- Ran product-level LCA and scenario analysis in SimaPro, comparing midpoint and endpoint results across design alternatives and end-of-life scenarios.
- Evaluated improvement options using circular design logic (e.g., remanufacturing-oriented choices) and compared alternatives using break-even reasoning.