

Hosam Salah Ibrahim

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Resume Summary

A highly skilled and seasoned Mechanical Power Engineer with over 12 years of extensive experience in the MEP industry. Demonstrated expertise in Project Management, Asset and Facility Management, with a strong focus on Sustainability and Energy-efficient MEP systems. In-depth knowledge of Green Building frameworks such as LEED, EDGE, and TARSHEED, along with a robust understanding of ESG strategies, reporting, and rating platforms. Proficient in Climate Action, Decarbonization, Energy Management, and Circular Economy principles. Committed to implementing and optimizing sustainability practices that enhance operational efficiency, minimize environmental impact, and contribute to the development of high-performance, environmentally responsible facilities.

Work Experience

CSR & Sustainability Supervisor at SODIC [2023 – Present].

Driven by a passion for sustainability, I have demonstrated expertise as a sustainability champion in the Asset Management Dept. and have since internally transitioned to the Sustainability Department.

- **Green Building Certification:** Contributed to successfully obtaining the EDGE Advance certification for the (EDNC) complex; currently leading the coordination of efforts to pursue Tarsheed Communities, Fitwel, and EDGE certifications for the new 500 Acres project.
- **Renewable Energy:** Participated in implementing Africa's largest residential solar-powered project in (VYE), 400 rooftop solar panels 2 MWp capacity, cutting CO₂ emissions by 1,600 tons annually.
- **Performance Metrics Development:** Collaborated with the FM team to develop KPIs, establish baselines, and set reduction targets for energy, water, and waste across operational assets.
- **Environmental Impact Assessment:** Collaborated with Finance and Project Management teams to apply due diligence and complete an EIA to secure project financing for the (June) development.
- **Sustainability Reporting:** Managed data collection for carbon footprint analysis, sustainability reporting, and rating platforms, collaborating cross-functionally with teams to ensure accurate annual reports by third-party assurers.
- **CSR Strategy:** Developed and executed CSR strategies to enhance the company's social impact.

Senior MEP Engineer at SODIC [2019 – 2023].

- Conducted MEP inspections and facilitated the handover process for a mixed-use complex (EDNC).
- Designed and executed MEP systems of an open-air, break space (The Belong Park).
- Managing MEP fit-out/services for on-site tenants, successfully supervised the completion of 50+ retail stores, offices, clinics, and mercantile establishments in SODIC properties.
- Led a walkthrough audit with ESCO, providing utility data and assessing energy-saving measures to identify cost and energy-saving opportunities for (The Polygon).
- Prepared annual budgets and cost summaries for community facility management, overseeing service providers' contracts, utilities, and HSE compliance.
- Initiated RFPs and managed tender processes to ensure proper execution of residential and commercial community services.

Senior Technical Office Engineer at Atrium Quality Contractors-Talaat Mostafa Group [2018–2019].

[Four Seasons Hotels and Resorts – Sharm Elsheikh].

- Shop drawings and Calculations for HVAC, Fire Fighting and Plumbing systems.
- Executed material Engineering and Procurement for HVAC, Fire Fighting and Plumbing systems.

Technical Office Engineer at Capital Contracting [2017–2018].

[Industrial Development & Workers Bank of Egypt - Cairo] [CIB 4- Smart Village].

- Procurement, shop drawings and Calculations for HVAC, Fire Fighting and Plumbing systems.

Technical Office Engineer at Hassan Allam Holding [2015–2017].

[Beir Arieda Air Base] [Zewail City of Science and Technology - Giza] [City Center Almaza - Cairo].

Oversee HAH scope in ZC, collaborate with stakeholders to meet LEED prerequisites and credits:

- **Construction Waste Management Planning:** achieving waste diversion goals and increasing recycling during construction.
- **Pollution Prevention:** Lead efforts to reduce pollution from construction activities, ensuring compliance with environmental and LEED requirements.
- **Indoor Air Quality & Flush-out:** Implement and calculate indoor air quality measures and flush-out procedures during construction to meet LEED standards.
- Promptly calculate DCP pump head for City Center Almaza to procure ahead of schedule.

Technical Office Engineer at DETAC [2013–2015].

[Etisalat Misr HQ - Smart Village].

- Shop drawings and Calculations for HVAC, Fire Fighting and Plumbing systems.

Testing and Commissioning Engineer at EBC [2012–2013].

[DAMAC Park Avenue - Giza] [Dar al Handasah Premises - Smart Village].

- **Fundamental Commissioning and Verification:** Reviewed and managed CxA duties for building systems, ensuring compliance with LEED requirements.
- Do all (Test and Air Balancing) Works for various HVAC Equipment and submit reports.

Education

- **Postgraduate Diploma in Air Conditioning and Ventilation.** Faculty of Engineering - Ain Shams University. (Score: 3.28, Grade: B) [2018].
- **Bachelor of Mechanical Power Engineering.** Faculty of Engineering – Cairo University. Graduation project: Design of Flat Plate Solar Collectors. [2012].

Certification

- High Performance Building Design Professional – ASHRAE
- LEED AP® BD+C – USGBC.
- Project Management Professional PMP® – PMI.
- EDGE Expert™ – IFC.
- Certified Energy Manager® – Aee®.
- Sustainability Excellence Associate – ISSP.

Articles and Papers

- Arabic translation **ASHRAE Position Document on Building Decarbonization** www.ashrae.org/translations
- Arabic translation of Greenhouse Gas Inventory Guidance- Direct Fugitive Emissions.
- The Role of Net Present Value Methodology in Energy Performance Contracts.
- Exploring Sustainable Real Estate Development from an Asset Management Perspective.
- Building's Terminologies explored.
- مقدمة عن الإستدامة

Educating and Mentoring

- Conducted LEED and Sustainability training sessions and workshops for multidisciplinary teams, educating architects, engineers, and contractors on sustainable design principles and LEED certification. <https://youtube.com/@hosamsalahibrahim?si=jlz7P-Z0gXwXYEFv>
- Selected to participate in AEE's 2025 Mentoring Program as a mentor.

Courses

- Introduction to Sustainable Finance (UNCC, UNITAR).
- Strategy and Sustainability (Coursera).
- Becoming a Climate Champion (UNCC, UNITAR).
- LCA Construction Bootcamp (OneClick).
- LCA EPD Bootcamp (OneClick).
- Project Management Professional (AMCHAM).
- LEED GA Exam Preparation (American Uni. In Cairo).
- HVAC and Fire Fighting System Design Training Course.
- CNC Basics and CNC Machining Control.

Skills

- Carrier HAP
- EDGE Software
- Design Builder
- SimaPro
- AutoCAD
- CFP Assessment

Language

- Arabic (Mother Tongue).
- English (Fluent).
- Deutsch (A1).

Additional Resume Sections

- ASHRAE Cairo Chapter member, Co-Chair Sustainability Committee (Present).
- SPSA Sustainability Professional of Saudi Arabia member (Present).
- Active member in Resala Charity Organization. Water and Area's committee (2010-2018).

Personal Information

- Birth date: Jan 11, 1990.
- Marital Status: Married.
- Military Status: Exempted.