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Profile:

Technical & Technical Management

- **Data analysis:** utilized Excel and Minitab for statistical analysis, SQL and Python to analyze datasets of projects, and identifying patterns to optimize the process, developed interactive dashboard in Power BI to visualize a project performance.
- **Business Intelligence Reporting:** preparing analyst reports, that inefficiencies in project performance
- **Sales and Marketing:** strategy plan of product sales and delivery client's needs.
- **Customer services:** assist clients to reach their needs with improve our company recommend.

Team management

- **Project management** manage the project process with a flexible strategy.
- **Leading running small to medium projects** with primary customer interface, managing team workers, cost optimization, risk management, internal and external project reporting.
- **Leading Research team** for data analysis and design with different levels of data quality insurance.
- **Planning competence development** and enablement program for team member's skills and resources management of different projects.

Education:

- **Master's degree of Robotics Engineering (Robotics design)**, University of Johannesburg, South Africa.
- **Bachelor of Engineering (Mechatronics department)**, Ain Shams University (Egypt).
- **Data analysis** (AMIT education center): including statistical analysis, data cleaning, SQL for data extraction, Python (Pandas, NumPy, Matplotlib), advanced Excel (Pivot tables, VLOOKUP, Power Query, power pivot), Power BI dashboard design, and data visualization & storytelling.
- **PMP** (Project Management Professional).
- **RMP** (Risk Management Professional).
- **Planning and cost control** (Primavera 8.1).
- Sep. 2014 to Mar. 2015: **LEAN** (Manufacture Management) (Methode Malta Company, Malta).
- Jan. 2015 to April 2015: **PLC** (Programmable Logic control) Advanced (MCOST institute, Malta).

Experience:

- Jan.2026: currently: **Sales Engineer and business strategy** at Supply Cloud, responsible for providing marketing and business analysis to support the company's strategic objectives.
- December 2024 to Jan. 2026: **Data analyst engineer**, working as a data analyst for AMIT expert, to analysis and report clients data.

- January 2018 to Sep. 2024: **tutor at University of Johannesburg**, Worked as Tutor for Mechanical Design, and Thermal process.
- August 2021 to July 2024: **project manager engineer** in Tech City Company for engineering experts (Johannesburg, South Africa), served as a project manager engineer, conducting detailed process analysis to optimize project workflows, while overseeing the design and manufacturing to ensure compliance with technical specification and efficient production.
- July 2016 to Sep. 2017: **Marketing and customer service engineer at ACT Cairo Company**, (Cairo, Egypt), worked as a Marketing and customer service engineer to create a marketing stratagem for the company product (industry doors) in a different markets and fields. Provide customer service after sales, and solve customer's problems. Conducted market analysis to identify trends and opportunities, driving enhanced sales performance and optimized service delivery.
- Jun2014 to Jun 2016: **Process Engineer at METHODE Egypt Electronics**, (Cairo, Egypt), worked as a process Engineer for manage small and medium production lines of electronics components of Vehicles (Aston Martin, Mitsubishi, Fiat and Jaguar). I established a production line of electronics components of Renault, and worked as production line planner for new production line such as a "electronics components production line of Renault".
- Jun2013 to May2014: **Sales engineer at Marine TechEgypt**, (Cairo, Egypt), Worked as a sales engineer for sales and marketing a production line (elevator).

Projects:

- Master's degree project: **robotics design**, Research, data analysis (using Minitab 18.1), design, with finite element analysis (using SolidWorks software). Which is the robot having the capability to operate in such a different environment for search and inspection.
- Graduation Project of Bachelor: **Solar Tracking System** using to generate a car (as one application of electrical car) Research, design (using Inventor software), parts Manufacturing, control (using Microcontroller) and test it.
- **C N C Machine**: Manage the project from the feasibility study stage, through the other stages (design, parts manufacturing, and test, using PLC as a control unit). Designing the mechanical parts and performing comprehensive stress analysis using SolidWorks to ensure structural integrity, coordinated cross-functional teams, managed budgets, and ensured on-time delivery. Cost control evaluation of the project.
- **Robotic ARM System**: Engineered the mechanical components for the robotic arm, performing comprehensive stress analysis using SolidWorks to ensure structural integrity. Managed the manufacturing process, overseeing production workflows to meet design specifications and quality standards.
- **Quadcopter**: Manage the project from the feasibility study stage, through the engineered parts, manufacturing, and testing. Achieved the aeronautical design with a full mechanical simulation.
- **Speed Bump Power Generator**: Manage the project stages, establish from a customer needs through a feasibility study, design (mechanical and electrical), prototype, and manufacturing stage. Designing the mechanical parts and performing comprehensive stress analysis using SolidWorks to ensure structural integrity.

- **Recovery device for a hand to be used by patients with mild stroke complications:** Manage the project from the feasibility study stage, through design (mechanical, electrical, and control), manufacturing, testing. As a customize product with a special needs. Designing the mechanical parts.
- **Design a Pedal-Press Lifting Jack:** Manage the project from the customer needs, through a feasibility study stage, design, manufacturing, testing. Engineered the mechanical components for the project, performing comprehensive stress analysis using SolidWorks to ensure structural integrity. Managed the manufacturing process, overseeing production workflows to meet design specifications and quality standards.

Competitions and Awards:

- Aug.2021: the robotics competition of Ain Shams University, winning as a second-best design and building of hybrid drone.
- Aug.2009: the robotics competition of Ain Shams University, winning as a second-best design and building of robot (Robot arm project).
- Aug.2008: the robotics competition of Ain Shams University, winning as a third best design and building of moveable crane.

Training and Courses:

- Jan. 2008 to Feb. 2008: **Autodesk Inventor** (Ain shams University, Egypt) drawing by Inventor software, mechanical assembly and simulation.
- Mar. 2019 to Sep.2019: **SOLIDWORKS:** Leading by University of Johannesburg, drawing by Solidworks software, mechanical assembly and finite element analysis.
- Aug.2014 to Apr.2015: **production and manufacturing leadership skills**, leading with Hetronic Methode company (Malta).
- **CNC Machines**, leading with 54 Military Factory, Egypt. Manufacturing by CNC machine.
- **Elevator service**, leading with “Marina Company”, assembly and maintenance of elevator.
- **Copies Machine** Leading with “Engineering Land company “, for operation training and maintenance of copy machine and printers.
- LEAN and seven sigma.
- **Planning & Schedule Management**, (using Primavera P6 and Microsoft Project)
- **Business analysis**

License:

- Engineering Council of Egypt (ECE).
- Engineering Council of South Africa (ECSA).

Languages:

- Arabic: home language
- English: fluent
- Germany: beginner
- Italian: beginner