

# Omar Essam El-Din Mohamed

Zahraa El Maadi, Cairo, Egypt

☎ +20 1004819774

✉ [eng.omar.e@gmail.com](mailto:eng.omar.e@gmail.com)

[in](#) LinkedIn

[GitHub](#)

## PROFESSIONAL SUMMARY

---

A results-driven Project Management Information Systems (PMIS) Engineer with 10+ years of experience spanning construction, civil engineering, and data engineering. Demonstrated success in:

- Leading data warehouse initiatives and ETL pipeline development
- Implementing machine learning models for financial forecasting
- Automating workflows resulting in significant time savings
- Managing complex construction projects with budgets exceeding \$10M

## EDUCATION

---

**Cairo University**, Bachelor of Science in Civil Engineering, May 2013

*Overall Grade:* Good (C)

*Project Grade:* Excellent (A)

*Graduation Project:* Steel Bridges Design

**Orouba Language School**, Graduation Score: 98.9% (405.5/410)

## PROFESSIONAL EXPERIENCE

---

### Programming and Data Engineering Experience

- **Data Engineer Lead** — Rowad Modern Engineering (Aug 2024 – Present)
  - Established a data warehouse team, integrated data sources for improved reporting & visualization.
- **Data Scientist** — Rowad Modern Engineering (Mar 2024 – Jul 2024)
  - Developed machine learning models for cash flow predictions.
- **Senior Data Engineer** — Rowad Modern Engineering (Apr 2023 – Dec 2023)
  - Automated repetitive tasks using Python, saving significant resource hours.
- **IT Networking / Data Engineer** — Rowad Modern Engineering (Jan 2023 – Present)
  - Maintained MySQL databases on Linux Servers, ensuring seamless data access and storage.
- **Co-Owner** — Cyber Cafe (2009 – 2011)
  - Managed hardware and networking for all systems.

## Construction and Civil Engineering Experience

- **Project Control Section Head** — Rowad Modern Engineering, Bridges Sector (Sep 2021 – May 2023)
  - Managed the project control team for bridge projects. Streamlined cost and schedule reporting processes. Enhanced coordination between construction and planning teams.
- **Senior Project Control Engineer** — Rowad Modern Engineering, Head Office (Jan 2019 – Aug 2021)
  - Oversaw multiple project schedules and cost control measures. Delivered periodic project performance reports to stakeholders.
- **Project Control Engineer** — Rowad Modern Engineering (Apr 2018 – Dec 2018)
  - Worked on major infrastructure projects including Nefisha Bridge and El Sokhna Tunnel.
- **Tendering Engineer** — Rowad Modern Engineering, Tender Department (Jan 2018 – Mar 2018)
  - Evaluated project tenders for technical and financial feasibility.
- **Planning/Cost Control Engineer** — Concrete Plus (Apr 2015 – Jan 2018)
  - Coordinated cost control for multiple projects from the head office.
- **Site Engineer** — Concrete Plus, Porto October Project (Apr 2014 – Mar 2015)
  - Supervised on-site construction activities, ensuring compliance with design specifications.

## KEY SKILLS

---

### Technical Skills

- **Data Engineering:**  
ETL pipelines, Airflow, Spark, ERP systems, Docker
- **Data Visualization:**  
Power BI, Looker, Tableau, Python visualization libraries
- **Programming:**  
Python, SQL, Java, R, C++, C# (familiar)

### Domain Expertise

- **Engineering Tools:**  
Primavera P6, MS Project, Synchro, Revit, Navisworks, AutoCAD
- **Construction:**  
Cost Control, Tender Evaluation, Risk Management
- **Languages:**  
Arabic (Native), English (Fluent)

## CERTIFICATIONS

---

- Certified Data Scientist Professional (Epsilon AI)
- Primavera P6
- Python Programming
- PMP Certification
- CCNA and CCNP Networking
- Steel Bridges Design

## PERSONAL PROJECTS

---

- Guitarist in an Iron Maiden cover band.
- Created a music YouTube channel with over 100,000 subscribers.
- Co-created the social media group ESS.
- Co-hosted a political podcast.
- Wrote two sci-fi novels.
- Worked in the rescue of street cats and dogs in Maadi.