

Mohamed Essam

Civil Engineer | production & Site Management | HSE Engineer | Lean Construction

✉ mohamedessam9406@gmail.com 📞 +201270136617 🏠 Cairo, Egypt 📅 September 1, 1992 🇪🇬 Egyptian

Results-driven Civil Engineer with over 7 years of experience in construction, production engineering, and project management across large-scale infrastructure and industrial projects. Proven expertise in lean manufacturing, structural supervision, and HSE compliance with a solid track record of delivering high-quality projects under budget and ahead of schedule. Demonstrates strong leadership, analytical thinking, and effective communication to manage teams, optimize production, and drive continuous improvement. Experienced Internal Lead Auditor with certifications in Project Management and Occupational Safety.

Education

2009 - 2014

■ Bachelor of Civil Engineering

New Cairo Academy, Cairo, Egypt

- **Graduation Project:** Self-Compacting Concrete using Glass Waste
- **Project Grade:** Excellent

Employment

2024 - Present

■ lead Production Civil Engineer

The Egyptian Company for Prestressed Concrete by Consolis, Cairo, Egypt

Responsibilities:

- Lead and manage all production activities in Metro Segment Workshop (Greater Cairo Metro Line 3), supervising over 120 workers and 3 supervisors.
- Ensured full compliance with site safety regulations and company HSE policies to maintain a secure
- Ensure compliance with Lean Manufacturing principles to improve efficiency, reduce waste, and optimize resource utilization.
- Oversee production planning, safety (HSE), procurement, quality control, and coordination across all departments.
- Implement and monitor corrective and preventive action plans, ensuring alignment with project specifications.
- Oversee day-to-day site operations and ensure all civil works are executed according to project specifications and approved drawings.
- Monitor contractor performance, verify materials, and approve construction methods to maintain project standards.
- Manage resource allocation including manpower, equipment, and materials to optimize productivity and reduce waste.
- Review structural drawings and provide technical input for design modifications and constructability improvements.

2021

■ Senior Production Engineer

The Egyptian Company for Prestressed Concrete by Consolis, Cairo, Egypt

Responsibilities:

- Oversaw daily production workflows to ensure optimal coordination between design, casting, and reinforcement operations.
- Managed material inventory, equipment maintenance schedules, and workforce allocation to minimize downtime.
- Reviewed production reports and key performance indicators (KPIs) to monitor performance and implement corrective actions.
- Collaborated with the planning team to establish timelines and segment production, ensuring on-time delivery.
- Supervised site activities to ensure adherence to all safety protocols and minimize potential hazards.
- Supported project documentation, including RFI responses, material submittals, and as-built drawings.
- Led quality control activities, performed concrete testing, and verified reinforcement installation prior to casting.
- Assisted in cost control and budget tracking, identifying potential overruns and recommending preventive measures.
- Worked in both the Steel Plate Workshop and Second Workshop, overseeing fabrication, assembly, and finishing operations.

2016

■ **Production Civil Engineer**

The Egyptian Company for Prestressed Concrete by Consolis, Cairo, Egypt

Responsibilities:

- Supported the development of new production techniques and molds to improve product precision and reduce defects.
- Supervised calibration and maintenance of production machinery to maintain accuracy and compliance with technical standards.
- Coordinated with project management and procurement teams to align production output with project demand forecasts.
- Trained and mentored junior engineers and technicians on production procedures, safety standards, and lean methodologies.
- Prepared technical documentation, reports, and performance analyses for management review and project audits.
- Ensured workers and subcontractors followed approved safety guidelines and used personal protective equipment (PPE) at all times.

May 2014 - Aug 2016

■ **Site Structure Civil Engineer**

Concrete Surgeons, Cairo, Egypt

Projects:

- Port Said Power Station (Anchor Planting)
- The National Institute of Occupational Safety and Health Building (Concrete Repair - Shotcrete - Finishing)
- Hotel Construction in Zamalek (Construction - Concrete Cutting)
- Dolphin Basin Insulation - Media Production City
- Anchor Planting – Egyptian Steel Factory (Beni Suef)
- Concrete Cutting – Terminal 9, Cairo Airport

Responsibilities:

- Managed multiple civil projects ensuring timely completion within budget and quality parameters.
- Attended client, contractor, and consultant meetings to coordinate design and construction activities.
- Supervised site execution in compliance with building codes, safety standards, and technical drawings.
- Developed detailed project plans, schedules, and progress reports for stakeholders.
- Conducted quantity surveying, inspections, and on-site troubleshooting for structural works.
- Worked on Concrete Repair, Concrete Cutting, and Anchore Planting.
- Applied Carbon Fiber Strengthening techniques in structural rehabilitation projects.
- Gained hands-on expertise in construction procedures and site operations.

Certificates

2023

■ **OHSMS ISO 45001:2018 Lead Auditor Training**

From Bureau Veritas

2022

■ **Project Management Professional Course**

2021

■ **Leadership Skills Program**

2021

■ **Crane Operator Course (Lifting Safety)**

2021

■ **OSHA Certified**

2020

■ **Project Management Professional (PMP)**

2020

■ **Communication Skills Course**

2019

■ **OHSMS ISO 45001:2018 Lead Auditor Training**

From Bureau Veritas

2017

■ **Occupational Safety & Health (Safety Specialist)**

Achievements

- Successfully managed civil engineering projects, ensuring completion within budget and timeline.
- Supervised fabrication and quality control of metro tunnel rings, ensuring compliance.
- Led completion of structural and civil components for the restoration of the National Institute of Occupational Safety and Health Building.
- Transformed a high-risk manual lifting process (previously required 2 workers) into a safe one-man operation inspired by gym techniques, reducing injury and risk.
- cutting handling time from hours to just minutes.
- Designed and implemented Lean Manufacturing Action Plans that improved productivity, reduced waste, and enhanced safety standards.

Internships

Aug 2012 - Sep 2012

■ **Civil Sector Training at Petroleum Pipelines Company**
Civil Sector Training

Jul 2012 - Aug 2012

■ **Civil Department Training at Belayim Petroleum Company**

Jun 2011 - Nov 2011

■ **Site Structural Engineer at Rollako Company**
Site Structural Engineer for Villa Construction, Fifth Settlement

Personal Skills

Leadership

Analytical Thinking

Effective Communication

Strong analytical

High adaptability

detail oriented professional

Software Skills

AutoCAD

Microsoft Office

SAP2000

Primavera P6

SAP ERP system

Career Skills

- **Project Management:** Experienced in planning, execution, and delivery of complex construction projects.
- **Lean Manufacturing:** Skilled in optimizing production processes and reducing waste for higher efficiency.
- **Health & Safety Compliance:** Certified Safety Specialist ensuring adherence to OSHA and ISO 45001 standards.
- **Team Leadership:** Strong leadership in managing multidisciplinary teams across construction and production.
- **Quality Control & Auditing:** Conducting audits and implementing corrective actions to maintain quality standards.

Languages

Arabic | Native Speaker

English | Fluent

References

Eng. Khaled Allam – Concrete Surgeons
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