

# SARA ELGADI

## Construction Officer | Civil Engineer

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## PROFESSIONAL SUMMARY

20+ years leading high-impact infrastructure projects in crisis zones (Sudan, Ethiopia, UAE). Expert in emergency builds, BIM innovation (Revit/AutoCAD), and cost-efficient solutions that save lives. Adept at delivering child-safe shelters, clinics, and schools 10–20% under budget. Skilled in UN compliance, Construction standards, and collaborating with NGOs/governments to uplift vulnerable communities.

## CORE COMPETENCIES

- Construction Project Lifecycle Management (Concept to Handover)
- BIM/Revit Coordination & Clash Detection (Navisworks, Lumion)
- Stakeholder Engagement (Contractors, NGOs, Government Bodies)
- Cost Optimization & Risk Mitigation Strategies
- Compliance with Building Codes (Dubai Municipality, Saudi Building Code)
- Emergency Infrastructure Development in Conflict Zones
- Primavera, MS Project, and Agile Scheduling

## PROFESSIONAL EXPERIENCE

### National Civil Engineer / Project Engineer

*United Nations Office for Project Services (UNOPS) | Ethiopia, Sudan, Djibouti | July 2021 – Dec 2023*

- Directed \$2M+ healthcare infrastructure projects, including 3 hospitals, delivering **10% under budget** through Primavera-driven resource planning.
- Oversaw construction activities to ensure timely delivery, adherence to quality standards, and HSSE compliance, in coordination with the infrastructure project manager and supporting teams.
- Reviewed and confirmed material quantities to facilitate procurement processes and supported cost-effective procurement in collaboration with the procurement team.
- Monitored project progress and contributed to KPI assessments, reporting on

achievements, performance, and final project outcomes.

- Collaborated with local contractors for topographical and geotechnical investigations, providing technical input to the design and development processes.
- Supervised construction works and assisted in contract management, ensuring timely completion within budget while maintaining high-quality standards.
- Coordinated with 15+ NGOs and local authorities to construct 12 health clinics and 8 shelters in Gedaref and Kassala, serving 30,000+ displaced persons.

### **Senior Engineer Consultant**

*ALMADA Consultancy | Sharjah, UAE | Feb. 2024 – Present*

- Oversaw end-to-end design management for 15+ residential, commercial, and healthcare projects, achieving **100% Dubai Municipality compliance**.
- Streamlined BIM workflows (Revit, AutoCAD), reducing design preparation time by **20%** and enhancing multidisciplinary coordination.
- Mentored teams in clash detection and IFC package compilation, improving design accuracy and stakeholder communication.

### **Projects Manager, Executive Engineer**

*Series Home Architecture & Bakhit Elballa Engineering | UAE, Sudan | Apr 2018 – Jun 2021*

- Delivered 8 large-scale mixed-use developments, aligning designs with Saudi Building Code and UAE regulations.
- Rehabilitated water systems in IDP camps, cutting waterborne diseases by **50%** through UNICEF-partnered infrastructure upgrades.
- Trained 50+ engineers in conflict-sensitive construction practices, ensuring adherence to Standards.

### **Field Engineer**

*Faris Engineering | Sudan | Apr 2007 – Mar 2018*

- Reconstructed 50+ homes and 5 schools post-2016 Khartoum floods, improving community resilience.

- Reduced operational costs by **10%** via AutoCAD-driven process optimization and parametric family creation in Revit.

## EDUCATION & CERTIFICATIONS

- **Ph.D. (In Progress)**, Project Planning & Design | *Sudan University for Science and Technology*
- **M.Sc., Projects Planning** | *University of Khartoum 2003*
- **B.Sc., Architectural Design and Construction** | *University of Khartoum 2000*
- **PMP** | Project Management Institute (2024)
- **PRINCE2® Foundation** | AXELOS (2023)
- **OSHA 30-Hour Construction Safety** | (2024)
- **Autodesk BIM Management** | (2024)

## TECHNICAL SKILLS

- **Software:** Revit, AutoCAD, Navisworks, MS Project, Lumion, Primavera
- **Project Types:** Healthcare, Residential, Commercial, Emergency Infrastructure
- **Compliance:** Dubai Municipality, Saudi Building Code, OSHA, Sphere Standards

## KEY ACHIEVEMENTS

- Reduced project delays by **20%** through proactive risk mitigation and Agile scheduling at UNOPS.
- Achieved **30% improvement in design accuracy** by mentoring teams in BIM workflows.

## LANGUAGES

- **Arabic** (Native) | **English** (Professional)