

Timucin Toksoz, MSc

Founder & Principal Structural Engineer — Steel Silos, Industrial Steel Structures, Platforms, FEA

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PROFILE

Structural engineer (MSc) with 25 years of experience in design offices and on construction sites, running my own engineering office in Istanbul since 2018. I carry out structural analysis and independent design checks of steel silos and hoppers, industrial steel structures, equipment and process platforms and their foundations, working directly from the manufacturer's STEP/CAD model with modular finite element analysis (Altair SimSolid, Ansys, SAP2000, RFEM) and clear calculation reports. My office also delivers product, robot and machine design, boat and marine structure design, prefab and mobile units, 3D models and assembly animations, and custom engineering calculation software. Long site and project-management background: site manager on the 350,000 m² Yalı Ataköy development, project manager and resident engineer on World Bank / EIB-funded seismic retrofit packages under FIDIC, and investment-project manager for 23 industrial companies of Park Holding (including power-plant cooling tower and coal-field infrastructure assessments).

CORE SKILLS

- Steel silos and hoppers: shell, roof, hopper, support frames, access platforms, foundations (EN 1991-4, EN 1993-4-1)
- Industrial steel structures, equipment and process platforms, pipe and equipment supports, mezzanines, steel roofs, hangars
- STEP/CAD → FE model conversion; static, dynamic, seismic and wind analysis; independent design checks
- Software: Altair SimSolid, Ansys, SAP2000, RFEM, Sta4CAD, Stasteel, Rhino 8, Fusion 360, AutoCAD, Tekla Structures
- Reinforced concrete and timber structures, screw-pile foundations, retaining walls and shoring
- Product, robot and machine design; 3D modelling, renders and assembly animations; Python engineering tools
- Project management: budgeting, scheduling (Primavera, MS Project), procurement, payment certificates, QA/QC, FIDIC contract administration

EXPERIENCE

Founder & Principal Structural Engineer — Own Practice, Istanbul · Apr 2018 – present (freelance office; alongside employed roles until Dec 2021)

- Structural analysis and design checks for steel silo manufacturers across Türkiye: manufacturer STEP model → analysis model → foundation design → modular FEA (SimSolid) → calculation report.
- Industrial steel platforms, timber structures, screw-pile foundations, glass balustrade systems; clients in Türkiye and abroad.
- Product, robot and machine design (e.g. a tool-cart robot that follows its operator, with motorised drawers and voice control), boats, tiny houses and caravans, 3D visualisation.
- Confidential design and engineering work for defence-industry companies under non-disclosure agreements.

Project Manager — Merdoğlu Architecture & Engineering, Istanbul · Jun 2020 – Dec 2021

Design and construction consultancy for 50-room hotel conversion projects and the Invest Vadi Project Block A hotel block.

Project Manager — Öncü Group / Nasel Tekstil İnşaat, Istanbul · Mar 2016 – Jun 2020

Öncü Teras (67 luxury homes + 10,000 m² amenities), Esmahan Evleri (40 homes), project and management consultancy for Forev Modern Eyüp (280 homes); further 67- and 52-unit housing projects.

Project Manager — Karadeniz Örme · Dec 2015 – Mar 2016

Horus Paradise Hotel annex (20,000 m²): construction management, quality and cost control.

Site Manager — Öz Yazıcı & Karadeniz Örme JV, Istanbul · Dec 2013 – Dec 2015

Yalı Ataköy: 5 blocks, 550 luxury units, 350,000 m² total construction area.

Project Coordinator — Mescioğlu İnşaat, İstanbul · Jul 2013 – Dec 2013

ISMEP seismic retrofit of 10 educational buildings under FIDIC; TRY 12.5 million budget; site team of 20+ technical staff.

Project Manager — Kalyon İnşaat, İstanbul · Aug 2011 – May 2013

CEB-WB04 package: two schools and a sports hall with infrastructure; contract value TRY 10.5 million.

Project Coordinator — Benlioğlu Yapı (EIB-WB04-23) · Apr 2011 – Jul 2011 · **General Coordinator — Güneş Konut** · Nov 2010 – Apr 2011 · **Project Manager — Nuhoğlu İnşaat** · Jun 2010 – Nov 2010

School reconstruction and seismic retrofit packages; nationwide mass-housing site coordination.

Resident Engineer — Sipe SpA – Spe SpA JV (Italy/Switzerland) · Feb 2009 – Jun 2010

IPKB hospital retrofit package (Hıfzıssıhha Institute, Haseki and Pendik State Hospitals): review and approval of site reports, submittals, shop drawings, as-builts and payment applications; HSE and QA/QC.

Project Manager — Akper İnşaat · Aug 2008 – Feb 2009 · **Site Manager — Erfa İnşaat** · Nov 2007 – Jul 2009

Seismic retrofit of 6 schools (master schedule, budget, subcontracts, procurement, HSE); school reconstruction.

Project Manager — Park Holding · Sep 2006 – Oct 2007

Investment projects of 23 industrial companies: planning, budgets, risk and cost analysis, contracts, site audits. Eti Soda composite structural system; Silopi power plant cooling tower defect investigation; Çayırhan power plant infrastructure assessment; Afşin-Elbistan coal field infrastructure feasibility; Sarıyar Dam raw-water line feasibility.

Site Manager — İçdaş Steel & Shipyard · Sep 2005 – Sep 2006

Plant maintenance and new factory works.

Field Engineer — İntaş Ltd. · Sep 2004 – Jun 2005 · **Civil Engineer — Hat İnşaat Ltd.** · Oct 2000 – Jun 2003

EDUCATION

- MSc Structural Engineering — İstanbul Kültür University (2005–2007)
- BSc Civil Engineering — Süleyman Demirel University (1995–2000)

LANGUAGES

Turkish (native), English (advanced)

LICENSING NOTE

Calculations are signed under Turkish engineering practice. Where a locally licensed engineer of record is required, services are provided as analysis, design check and calculation support to that engineer.