

Yavuz Selim Karaman

Structural Engineer | Structural Design & Analysis Specialist

Kocaeli
Turkey

+90 539 573 4545

yvzkrmn@gmail.com

in yavuz-selim-karaman-117211200

Summary

Structural Engineer with a strong focus on high-precision analysis and design of complex steel systems. Currently at **Stow Group**, managing structural integrity for industrial projects across Europe, Oceania, and South America. Expert in **SCIA Engineer**, **SAP2000**, and **Idea Statica** with 2+ years of experience in freelance consulting for international markets. Proven ability to deliver cost-optimized and code-compliant designs while maintaining direct technical communication with global stakeholders.

Professional Experience

- Aug 2024–Present **Structural Engineer, Stow Group, Kocaeli/Global**
- Lead structural design for large-scale industrial storage and steel structures, ensuring compliance with **Eurocodes (EN)**, **AS/NZS**, and Peruvian building standards.
 - Perform advanced FEA modeling and non-linear analysis to optimize material efficiency.
 - Act as a technical liaison between the engineering team and international clients, resolving complex structural challenges through data-driven solutions.
 - Utilize **Idea Statica** for high-end connection design and **SAP2000** for global stability checks.
- 2022–Present **Structural Design Consultant, Freelance, Global Markets**
- Specialized in **Light Gauge Steel (LGS)** and cold-formed steel design for residential and commercial hangars.
 - Successfully delivered projects for clients in **Germany, USA, Canada, and Czechia**, adhering to local regulations (IBC, IBC Canada, EN1993).
 - Provided comprehensive static reports and production-ready models using **SCIA Engineer (Expert User)**.
 - Managed end-to-step project cycles from architectural conceptualization to final structural verification.
- 2022 **Intern Engineer, Görgülü Plus (Rönesans Holding), Istanbul**
- Contributed to the design validation of "Mega Structures" and high-rise stability assessments.
 - Conducted financial tracking and progress payment calculations for large-scale construction sites.
- 2021 **Intern Engineer, State Hydraulic Works (DSİ), Ankara**
- Analyzed the structural integrity and safety standards of dam projects and hydraulic infrastructure.

Key Technical Projects

- LGS Industrial Designed industrial hangars for the Canadian market complying with IBC standards (Wind/Snow load optimization).
- Residential EU Multi-story LGS residential building design in Germany using EN1993 and national annexes.
- Static Audits Provided third-party static verification for existing steel structures in the Peru and Australia regions.

Software & Technical Skills

Expert Tools **SCIA Engineer** (Advanced/Expert), **SAP2000**, **Idea Statica**, **CFS**, AutoCAD

In Progress **RFEM 6** (Advanced FEA and multi-material analysis)

Design Codes Eurocode (EN1991/1993), AS/NZS (1170/4600), IBC (US/Canada), TBDY2018

Competencies Global Client Relations, Finite Element Analysis (FEA), Connection Design, LGS Optimization

Education

2018–2023 **B.Sc. in Civil Engineering**, *Sakarya University*, Sakarya
Focused on Seismic Design and Structural Analysis.

Languages

English Professional Working Proficiency (Experienced in international technical documentation)

Turkish Native