



PHICON

Arifcan Yilmaz
Geotechnical Engineer (MSc BSc)

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PROFILE

A dedicated and solution-oriented geotechnical engineer with 5+ years' experience in ground investigation, foundation design, slope stability and geotechnical analysis across major transport infrastructure projects. Experienced with Eurocode, British Standards, FHWA and AASHTO, and proficient in delivering safe, cost-effective designs in multidisciplinary environments. Currently undertaking a PhD in geotechnical and railway engineering at Heriot-Watt University.

CORE COMPETENCIES

- Ground investigation, sampling and laboratory interpretation
- Shallow and deep foundation design
- Slope stability and retaining wall design
- Ground improvement assessment (DSM, jet grouting, piles)
- Settlement, consolidation, liquefaction analysis
- Technical reporting and project delivery
- Software: Plaxis 2D, Settle3D, Slide, AutoCAD, SAP2000, Tekla Structures, MIDAS Civil, MS Office

SELECTED PROJECTS

Mersin–Adana–Osmaniye–Gaziantep High Speed Train Project — Ministry of Transport & Infrastructure, Türkiye (2022–2025): Led GI activities, analysed SPT/CPT/PLT data, and prepared geotechnical reports across a 350-km corridor. Undertook bearing capacity, settlement, liquefaction and slope stability analyses using Plaxis, Settle3D and Slide. Designed foundations for bridges, viaducts, culverts and 50 km of retaining walls; assessed and specified ground improvement methods.

Town Hall & Underground Market Project — Elvan Architecture Construction, Türkiye (2017–2020): Structural design of reinforced concrete elements in SAP2000 and steel detailing in Tekla, including connection design and fabrication drawings.

EDUCATION

PhD Civil Engineering — Heriot-Watt University, Edinburgh, UK (2025–Present)

MSc Civil Engineering — University of Southampton, UK (2021–2022)

BSc Civil Engineering — Yıldız Technical University, Türkiye (2013–2017)

As part of Phicon's associate network, Arifcan provides practical geotechnical design, ground investigation and foundation engineering expertise, drawing on hands-on experience from major railway and infrastructure projects. He combines strong analytical capability with sound judgement in soil behaviour, ground modelling and construction-led design, supporting Phicon in delivering robust, reliable and well-documented solutions for complex civil engineering works.