



ISMAIL OUSSAMA

STATE CIVIL ENGINEER | BRIDGES & STRUCTURAL ENGINEERING

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License Category B

PROFESSIONAL PROFILE

State Civil Engineer, graduate of ENSTP (ranked 6th/69, Highest Honours), specialized in the design, modeling, and analysis of civil structures, with a strong focus on precast prestressed concrete girder bridges (VIPP). Combines hands-on experience at a highly prestigious company with solid command of MIDAS Civil NX, Robot Structural Analysis, GEO5, and FOXTA, complemented by Python/MySQL programming used to automate structural engineering tasks. Rigorous, results-driven, equally comfortable in the office and on site, familiar with Algerian public procurement procedures, and available for assignments nationwide.

EXPERTISE

Precast prestressed concrete girder bridges (VIPP) — from design to on-site execution supervision.

TECHNICAL EDGE

Programming & automation of structural engineering tasks.

ACADEMIC EXCELLENCE

Highest Honours, ranked 6th out of 69 ENSTP graduates.

PROFESSIONAL EXPERIENCE

State Civil Engineer — A61 Hub

COSIDER Ouvrages d'Art · El Achour, Algiers

June 2025 – Present

- Oversight of production control and progress tracking across several bridge construction sites run in parallel.
- Structural review of execution drawings (DEX) prior to the start of works.
- Technical point of contact for site teams, arbitrating design issues and resolving execution contingencies.
- Leading 3D modeling and animation (SketchUp / Twinmotion) for technical presentations.

State Civil Engineer — A51 Hub

COSIDER Ouvrages d'Art · Mascara

January – June 2025

- Contributed to the construction of grade-separated crossings replacing level crossings on the Algiers–Oran railway line, a strategic railway modernization project.

GRADUATION PROJECT — MAJOR ACHIEVEMENT

Design of a Viaduct (AHNIF)

Béjaïa Port Motorway Link / East-West Motorway — Highest Honours

ENSTP · 2024

- 950.60 m structure (PK46+489.700 → PK47+440.300): design of a balanced cantilever viaduct with variable depth, including advanced modeling under MIDAS Civil and Robot Structural Analysis (construction phases included).
- Developed a Python application to automate superstructure design — result: graduated with Highest Honours, ranked 6th out of 69, among the top graduation projects of the cohort.

EDUCATION

State Engineering Degree in Public Works

École Nationale Supérieure des Travaux Publics (ENSTP) · Algiers — Highest Honours · Ranked 6th / 69

2018 – July 2024

- Specialization in civil structures: design, modeling, and structural verification of bridges, with particular expertise in precast prestressed concrete girder bridges (VIPP).
- Graduation project: design of a 950.60 m viaduct — Béjaïa Port Motorway Link / East-West Motorway (AHNIF), with Python programming to automate superstructure design.

INTERNSHIPS

Final-Year Internship

DTP Béjaïa & SERO EST · Béjaïa

March – June 2024

- Assisted with foundation and elevation works on the Bordj Mira viaduct: execution control and structure acceptance, plus on-site construction methods (concrete pouring, rebar placement, geometric and topographic control).

Placement Internship

June – August 2023

SETAM BET · Blida

- Full design study (pre-sizing, loads, reinforcement) of a residential building per BAEL 91 mod.99 and RPA 2003; seismic modeling in Robot Structural Analysis and foundation design per Fascicule 62 Titre V.

Immersion Internship

June – August 2022

SETAM BET · Blida

- Introduction to design-office work methods (drawing review, DEX deliverables, laboratory testing) and hands-on use of AutoCAD, SketchUp, and Robot Structural Analysis.

TECHNICAL & SOFTWARE SKILLS

ANALYSIS & MODELING

MIDAS Civil NX · Robot Structural Analysis · GEO5 · FOXTA · Robot Expert

DRAFTING & 3D

AutoCAD · SketchUp · Twinmotion

PROGRAMMING

Python (PyQt5, NumPy) · MySQL · Web Development

OFFICE TOOLS

MS Excel · Word · PowerPoint

DESIGN CODES

Eurocodes (EC1, EC2) · RPOA · RCPR · UIC71 · BAEL · BPEL · Fascicule 62 Titre V · SETRA Guides

CONTINUING EDUCATION & CERTIFICATIONS

- MIDAS Civil NX — Precast Prestressed Concrete Rail Bridge & Construction Phases (Seminar) — MIDAS ACADEMY, Algiers, 2026
- Robot Structural Analysis (Dr. Hemaidi Zourgui) — ENSTP
- MIDAS Civil (Eng. Guerfi) — ENSTP
- Retaining Walls & GEO5 Foundation Design (Dr. Arezki, Maghreb Campus)
- Steel Structures — building (Eng. Mami) & industrial shed (Eng. Tagrara)
- HackerRank — Python & Problem Solving

SOFT SKILLS

Working under pressure · Reliability & rigor · Communication & presentation · Analytical thinking · Attention to detail · Self-directed learning & adaptability · Teamwork · Integrity

LANGUAGES & REFERENCE

Arabic — Native language

French — Fluent

English — Fluent

Dr. HEMAIDI ZOURGUI Nadjib

Expert in Bridges & Structures

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