

ALEXANDRU CORNEA

EPC CONSTRUCTION MANAGER | GREENFIELD & BROWNFIELD | EUROPE · MIDDLE EAST · ASIA

EU Passport ▶ Abu Dhabi, UAE ▶ International Mobility (30 Days Notice)
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CAREER HIGHLIGHTS

- ▶ Delivered multi-billion-dollar EPC mega-projects (up to \$3.5B, 50M+ man-hours) across the Middle East, Europe, and Asia with a flawless HSSE record under live and greenfield conditions.
- ▶ Led full-scope EPC construction execution on greenfield and brownfield projects using Advanced Work Packaging (AWP) and modularization across civil, mechanical, and E&I scopes to improve predictability and work-face readiness.
- ▶ Built and led high-performance, multicultural site teams, driving execution discipline, productivity, and safe delivery through commissioning and handover.
- ▶ Regularly selected for schedule-critical, high-risk scopes, delivering on-time and on-budget outcomes through early construction readiness and strong interface management.

CORE COMPETENCIES

EPC Construction Leadership • Greenfield & Brownfield Execution • Advanced Work Packaging (AWP) • Modular Construction
Heavy Lift & Construction Logistics • Construction Readiness & SIMOPS • Systems Completion (MC, RFC, RFSU, Handover)
Multidiscipline Site Management (Civil, Structural, Mechanical, E&I) • HV/LV Substations & Power Distribution
HSSE Leadership & Zero-Incident Culture • Interface Management (EPC / EPCm / PMC / Client)
Planning & Controls (Level 4 Scheduling, KPIs, Risk Registers) • Claims Avoidance & Change Management
Commissioning Readiness • Walk-downs • Punch Closure • Turnover to Operations

PROFESSIONAL EXPERIENCE

CONSTRUCTION MANAGER

Tecnimont SpA ▶ Al Ruwais, Abu Dhabi, UAE ▶ 2024 – Present
Hail & Ghasha Onshore Project ▶ ADNOC ▶ \$3.5B ▶ 35M man-hours ▶ Greenfield
Senior EPC Construction Manager leading large-scale greenfield execution on ADNOC’s Hail & Ghasha Onshore Project, a flagship gas decarbonization and hydrogen program.

- ▶ Led a site organization of 50+ engineers and supervisors, establishing accountability, discipline, and proactive leadership across all trades.
- ▶ Implemented AWP-based Construction Execution Plans, achieving ~20% reduction in site congestion and ~15% improvement in labor productivity.
- ▶ Directed major civil, structural, and piping works (90,000 m³ concrete, 25,000 t steel, 340,000+ inch-dia piping), including heavy-lift operations for reactors and modular assemblies.
- ▶ Oversaw full E&I scope, including HV/LV substations, control systems, automation, and pre-commissioning in compliance with IEC and ADNOC standards.
- ▶ Maintained schedule certainty through Level 4 planning, risk registers, and KPI-based executive reporting, sustaining a zero-incident HSSE culture through handover.

CONSTRUCTION MANAGER

Technip Energies ▶ Rotterdam, Netherlands ▶ 2023 – 2024
RDCG Rotterdam Capacity Growth ▶ NESTE Oil ▶ \$1.5B ▶ Brownfield / Live Refinery
Construction Manager supporting EPCm execution on NESTE’s RDCG Rotterdam Capacity Growth Project, supporting renewable diesel and SAF capacity expansion within a live refinery.

- ▶ Managed contractor interfaces and daily site coordination across structural, mechanical, piping, utilities, and E&I scopes under greenfield and brownfield (live-plant) conditions.
- ▶ Led daily HSE and progress reviews, weekly technical meetings, and structured risk mitigation to maintain fast-track execution.
- ▶ Produced KPI dashboards, progress reports, and look-ahead plans aligned with baseline milestones and HQ governance.
- ▶ Supported change management and claims avoidance through disciplined documentation and early issue identification.
- ▶ Ensured construction readiness and execution continuity through proactive interface management and early resolution of site constraints.

CONSTRUCTION MANAGER

Technip Energies ▶ Bà Rịa-Vũng Tàu, Vietnam ▶ 2020 – 2023

Long Son Petrochemicals (LSP) Olefins Complex ▶ \$1.5B ▶ 8M man-hours ▶ SK Engineering JV ▶ Greenfield

Construction Manager on a large-scale greenfield olefins complex executed under an international EPC joint venture, supporting one of Southeast Asia's largest integrated petrochemical developments.

- ▶ Delivered furnaces, cracking units, and utility mechanical packages supporting 1.6 Mt/year olefins capacity, coordinating multiple contractors and multi-discipline interfaces.
- ▶ Led daily site coordination and HSSE leadership across 24/7 fast-track execution packages.
- ▶ Drove readiness for mechanical completion, pre-commissioning, and commissioning, including post-start-up repair campaigns on critical path.
- ▶ Led system walk-downs and major punch-list closure programs, achieving timely handover within aggressive start-up windows.

CONSTRUCTION SUPERINTENDENT (POLYMER UNITS & UTILITIES)

Tecnimont SpA ▶ Sohar, Oman ▶ 2018 – 2020

Liwa Plastics Project - EPC2 ▶ OQ ▶ \$895M ▶ 10M man-hours ▶ Greenfield

Construction Superintendent responsible for site execution of polymer production units and utilities on a major greenfield downstream complex, from bulk construction through commissioning and handover.

- ▶ Supervised execution of HDPE, LLDPE, and PP units, including extrusion, polymerization, utilities, and power distribution systems.
- ▶ Coordinated subcontractors and discipline interfaces, enforcing HSSE, QA/QC, and construction readiness standards.
- ▶ Managed construction sequencing, work-face planning, and interface resolution through pre-commissioning and commissioning phases.
- ▶ Led system walk-downs, punch-list closure, and turnover to operations.

SYSTEMS COMPLETION LEAD (TURNOVER & HANDOVER)

Saipem SpA ▶ Nigeria ▶ 2016 – 2017

Southern Swamp AGS Project ▶ \$1.5B ▶ Shell (SPDC)

Systems Completion Lead accountable for systemization, turnover, and handover execution on a large-scale upstream oil & gas development, bridging construction, commissioning, and operations.

- ▶ Led systems completion and systemization, including punch-list control, test packs, and final dossiers from construction through commissioning.
- ▶ Coordinated construction, commissioning, and operations interfaces to ensure safe start-up and schedule adherence.
- ▶ Managed acceptance and handover processes, enabling smooth transition to operations.

PROJECT / CONSTRUCTION LEAD (FABRICATION & SITE INTEGRATION)

Saipem SpA ▶ Nigeria ▶ 2014 – 2015

Southern Swamp AGS Project ▶ \$1.5B ▶ Shell (SPDC)

Project / Construction Lead responsible for fabrication oversight and site integration of prefabricated systems on a major upstream EPC project.

- ▶ Oversaw fabrication of piping, structural steel, and mechanical assemblies in compliance with ASME / API standards.
- ▶ Coordinated logistics and yard-to-site integration of prefabricated modules, maintaining material readiness and installation sequencing.
- ▶ Reduced rework and improved constructibility through structured interface management and quality control.

PROJECT ENGINEER (CONSTRUCTIBILITY)

Saipem SpA ▶ Milan, Italy ▶ 2014

Project Engineer supporting constructibility and execution planning during early EPC phases for complex industrial projects.

- ▶ Supported constructibility reviews, modularization strategies, and execution planning during early EPC development.
- ▶ Acted as interface between engineering, procurement, and construction, integrating site-driven feedback into design development.

EDUCATION & PROFESSIONAL AFFILIATIONS

M.Sc. Mechanical Engineering – Renewable Energies (30 ECTS, paused) Technical University of Cluj-Napoca

B.Eng. Mechanical Engineering – Thermal Systems & Equipment Technical University of Cluj-Napoca

VOL-VCA (Safety for Operational Leaders)

Member – Royal Netherlands Society of Engineers (KIVI)

Member – General Association of Engineers in Romania (AGIR)

Languages: Romanian (Native) | English (Fluent)