

# ALEXANDRU CORNEA

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

\$3.5B+ Energy & Petrochemical Programs | AWP & Modular Execution | Greenfield & Live-Plant

EU Passport | Abu Dhabi, UAE | International Mobility (30 Days Notice)

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## CAREER HIGHLIGHTS

- Directed execution of multi-billion-dollar EPC mega-projects (up to \$3.5B, 50M+ man-hours) across Europe, Middle East, and Asia, sustaining zero-incident HSSE performance under greenfield and live-plant 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 handover.
- Entrusted with schedule-critical, high-risk scopes, protecting baseline milestones and cost exposure through disciplined construction readiness and executive-level interface governance.
- Recognized for building disciplined, multicultural site teams driving safety, productivity, and schedule performance in complex EPC settings.
- Delivered fast-track construction programs under aggressive milestone frameworks while safeguarding cost exposure, safety performance, and operational readiness across multi-billion-dollar energy developments.

## CORE COMPETENCIES

EPC Construction Leadership | Greenfield & Brownfield Delivery | Advanced Work Packaging (AWP) | Modular Execution

Heavy Lift Integration & Construction Logistics | Construction Readiness & SIMOPS Governance | Systems Completion (MC, RFC, RFSU, Handover)

Multidiscipline Site Leadership (Civil, Structural, Mechanical, E&I) | HV/LV Substations & Power Distribution

HSSE Leadership & Zero-Incident Performance Culture | Interface Governance (EPC / EPCM / PMC / Client)

Planning & Controls (Level 4 Scheduling, KPIs, Risk Registers) | Claims Avoidance & Change Governance

Commissioning & Start-Up Readiness | System Walk-downs | Punch Management | Turnover to Operations

## PROFESSIONAL EXPERIENCE

### CONSTRUCTION MANAGER

Tecnímont SpA | Al Ruwais, Abu Dhabi, UAE | 2024-Present

Hail & Ghasha Onshore Project | ADNOC | \$3.5B | 35M man-hours | Greenfield

EPC Construction Manager leading large-scale greenfield execution on ADNOC's Hail & Ghasha Onshore Project, a flagship gas decarbonization and hydrogen program, with full construction accountability for performance, HSSE compliance, and schedule protection under direct client visibility.

- Held executive interface with ADNOC senior stakeholders, safeguarding schedule, cost, and risk objectives across assigned work fronts.
- Built and led a 50+ engineer site organization, establishing accountability and execution discipline across all trades.
- Directly managed discipline leads and superintendents across multi-package scopes, reporting to Project Director and ADNOC leadership.
- Implemented AWP-based execution strategies, reducing site congestion by ~20% and increasing labor productivity by ~15%.
- Directed major civil, structural, and piping works (90,000 m<sup>3</sup> 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.
- Protected baseline milestones through disciplined Level 4 planning, integrated risk registers, and executive KPI governance, maintaining zero-LTI performance through mechanical completion and handover.

### CONSTRUCTION MANAGER

Technip Energies | Rotterdam, Netherlands | 2023-2024

RDCG Rotterdam Capacity Growth | NESTE | \$1.5B | Brownfield / Live Refinery

Construction Manager overseeing EPCM site execution on NESTE's RDCG Rotterdam Capacity Growth Project, ensuring safe brownfield integration and schedule adherence within a live refinery environment.

- Directed contractor interfaces and cross-discipline coordination across structural, mechanical, piping, utilities, and E&I scopes within greenfield and live-plant environments.
- Led daily HSE and progress governance, weekly technical coordination, and structured risk mitigation to sustain fast-track execution within live-plant constraints.
- Established executive reporting and look-ahead governance aligned with baseline milestones.
- 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 Integrated Petrochemical Complex | 8M man-hours | SK Engineering JV | Greenfield

Construction Manager leading multi-discipline execution on a large-scale greenfield olefins complex delivered under an international EPC joint venture, forming part of one of Southeast Asia's largest integrated petrochemical developments.

- ▶ Directed delivery of furnace, cracking, and utility mechanical packages supporting 1.6 Mtpa olefins capacity, coordinating 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)**

Tecnímont SpA | Sohar, Oman | 2018-2020

Liwa Plastics Project - EPC2 | OQ | \$895M Downstream Complex | 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 Upstream Development | Shell (SPDC)

Systems Completion Lead accountable for systemization strategy, turnover governance, 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 | 2016-2017

Southern Swamp AGS Project | \$1.5B Upstream Development | 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 constructability and execution planning during early EPC phases for complex industrial projects.

- ▶ Supported constructability 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 (Advanced coursework completed - 30 ECTS) 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)