

# ALEXANDRU CORNEA

EPC CONSTRUCTION MANAGER | MULTI-BILLION-DOLLAR CAPITAL PROJECTS | EUROPE | MIDDLE EAST | ASIA

\$3.5B+ Energy & Petrochemical Programs | AWP & Modular Execution | Greenfield & Brownfield

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

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## CAREER HIGHLIGHTS

- ▶ Led EPC and EPCm construction delivery on multi-billion-dollar energy and petrochemical programs (up to \$3.5B; 50M+ man-hours) across Europe, Middle East, and Asia, sustaining zero-incident HSSE performance under complex greenfield and brownfield conditions.
- ▶ Directed full-scope multi-discipline execution (civil, structural, mechanical, piping, E&I), strengthening workfront predictability and SIMOPS compliance across complex multi-contractor delivery systems.
- ▶ Deployed Advanced Work Packaging (AWP) and modular execution strategies, reducing workfront congestion (~20%) and increasing labor productivity (~15%) through disciplined work-face readiness.
- ▶ Delivered high-visibility, schedule-critical scopes under senior client oversight, protecting baseline milestones through readiness governance, interface control, and KPI-driven risk management.
- ▶ Built and mobilized high-performance multicultural site organizations, driving execution discipline through mechanical completion, commissioning readiness, and documentation-complete turnover to operations.

## 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) | Turnover to Operations

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

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

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

Commissioning & Start-Up Readiness | System Walk-downs | Punch Management | Mechanical Completion

## 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 multi-package greenfield execution on ADNOC's flagship gas development program, accountable for package performance, HSSE leadership, cost exposure, and milestone protection under direct client oversight.

- ▶ Built and led a 50+ engineer organization across civil, structural, piping, and E&I scopes. Established execution discipline and clear package accountability.
- ▶ Served as executive interface with ADNOC leadership, aligning construction strategy to milestone frameworks and risk exposure.
- ▶ Maintained cost and schedule control across multi-package scopes within a multi-billion-dollar capital program.
- ▶ Directed 90,000 m<sup>3</sup> concrete, 25,000 t structural steel, and 340,000+ inch-dia piping works, including heavy-lift reactor installation.
- ▶ Governed subcontractor performance and stage-gate controls across critical-path and high-risk work fronts.
- ▶ Oversaw full E&I execution (HV/LV substations, automation, control systems, pre-commissioning) in compliance with ADNOC and IEC standards.
- ▶ Protected baseline milestones through disciplined Level 4 planning and integrated risk controls, sustaining zero-LTI performance through mechanical completion and structured turnover.

### CONSTRUCTION MANAGER

Technip Energies | Rotterdam, Netherlands | 2023-2024

RDCG Rotterdam Capacity Growth | NESTE | \$1.5B | Greenfield & Brownfield

Construction Manager overseeing EPCm execution within an active refinery environment, safeguarding operational continuity while delivering capacity expansion under stringent SIMOPS constraints.

- ▶ Directed contractor interfaces and cross-discipline coordination across structural, mechanical, and utilities scopes within live-plant boundaries, including execution of flare systems, furnace upgrades, and critical brownfield tie-ins.
- ▶ Led daily HSSE and progress governance, weekly technical coordination, and structured risk mitigation within SIMOPS constraints.
- ▶ Established executive reporting and look-ahead governance aligned with baseline milestones.
- ▶ Drove change management and claims avoidance through disciplined documentation and early issue identification.
- ▶ Ensured construction readiness and execution continuity through proactive interface management and early constraint resolution.

## **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 leading multi-discipline execution on a large-scale greenfield olefins complex, accountable for critical-path delivery through system completion and start-up.

- ▶ Directed furnace, cracking, and utility mechanical packages supporting 1.6 Mtpa olefins capacity.
- ▶ Led 24/7 fast-track execution governance and HSSE leadership across multi-contractor work fronts.
- ▶ Drove readiness for mechanical completion, pre-commissioning, and commissioning under aggressive start-up windows.
- ▶ Led system walk-downs and major punch-list closure campaigns to enable controlled turnover.

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## **CONSTRUCTION SUPERINTENDENT (POLYMER UNITS & UTILITIES)**

Tecnimont SpA | Sohar, Oman | 2018-2020

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

Construction Superintendent accountable for polymer production units and utilities execution from bulk construction through commissioning and turnover within a large-scale greenfield program.

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

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## **SYSTEMS COMPLETION LEAD (TURNOVER & HANDOVER)**

Saipem SpA | Nigeria | 2016-2017

Southern Swamp AGS Project | \$1.5B Upstream Development | Shell (SPDC)

Systems Completion Lead responsible for systemization strategy and turnover governance, bridging construction, commissioning, and operations within a major upstream EPC development.

- ▶ Led systemization and turnover strategy including punch control, test packs, and final dossier management.
- ▶ Coordinated construction-commissioning-operations interfaces to enable safe start-up and controlled transition to operations.
- ▶ Directed acceptance and documentation-complete turnover governance under schedule constraints.

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## **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, modular assembly, and yard-to-site integration of prefabricated systems within a large-scale upstream EPC program.

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

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## **PROJECT ENGINEER (CONSTRUCTIBILITY)**

Saipem SpA | Milan, Italy | 2014

Project Engineer supporting early-phase EPC constructibility and execution planning within Saipem headquarters, integrating engineering, procurement, and construction readiness frameworks.

- ▶ Supported constructibility reviews, modularization strategy development, and early-phase EPC execution planning.
- ▶ Acted as interface between engineering, procurement, and construction, integrating site-driven feedback into design optimization.
- ▶ Contributed to cross-functional alignment supporting delivery readiness and constructibility assurance.

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## **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)