

SUELA ALIAJ

Senior Civil & Structural Engineer

HV Substations & Energy Infrastructure

Structural Design | Design Review | Owner's Engineer | Construction Supervision

EXECUTIVE PROFILE

Senior Civil & Structural Engineer and independent Technical Consultant with 20+ years of experience spanning structural design, site execution, construction supervision, project coordination and client-side technical advisory. Specialized in civil and structural engineering for 110 kV, 220 kV and 400 kV electrical substations, complemented by extensive work on residential, mixed-use, tourism, healthcare and administrative facilities.

Combines design judgment with site reality - reviewing constructability, quantities, quality, costs, documentation and interfaces so owners, investors and project teams can make stronger technical decisions.

20+ YEARS	110 / 220 / 400 kV	DESIGN + FIELD
Engineering experience	Substation expertise	End-to-end project view

CORE PROFESSIONAL VALUE

DESIGN & VERIFICATION	Structural engineering and design; technical review; project verification; reinforced-concrete detailing; execution documentation.
SITE & DELIVERY	Construction supervision; design-to-field coordination; quality, quantity and cost control; contractor and subcontractor interfaces.
OWNER / INVESTOR SIDE	Technical due diligence; site inspections; client-side technical representation; independent decision support and investment protection.

SELECTED PROJECT SNAPSHOT

ENERGY INFRASTRUCTURE | 400 kV Koman Extension; 110 kV Memaliaj Rehabilitation; Xarre 110 kV substations.

MISSION-CRITICAL FACILITIES | National Dispatch Center and New OST Headquarters.

BUILDINGS & DEVELOPMENTS | Residential, mixed-use, tourism, healthcare, private villas, underground levels and service facilities.

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Energy Infrastructure |

Selected assignments with space reserved for project photography, drawings or structural models

01 EXTENSION OF 400 kV KOMAN SUBSTATION

ENERGY INFRASTRUCTURE | STRUCTURAL ENGINEERING | DESIGN & SUPERVISION

‘Civil and structural engineering and supervision within the high-voltage substation extension, connecting structural design, construction execution and project-supervision interfaces.

‘Extension of 400 kv Koman substation project.’’ under the supervision of Gopa and A.B.B. companies, the standard is not negotiable.

Coverage included execution-related activities, quality and quantity control, technical coordination and work-statement reconciliation.



02 NATIONAL DISPATCH CENTER & NEW OST HEADQUARTERS

MISSION-CRITICAL / ADMINISTRATIVE FACILITY | TECHNICAL SUPERVISION & COORDINATION

Technical supervision and coordination across civil works, electrical systems, HVAC, the Tirana 2 substation connection and control-monitoring facilities.

A multi-discipline assignment requiring structured coordination between technical packages and site execution.



03 REHABILITATION OF 110 kV MEMALIAJ SUBSTATION

ENERGY REHABILITATION | STRUCTURAL DESIGN & SUPERVISION

Civil and structural engineering for rehabilitation works in an operating energy-infrastructure context, including execution oversight and technical coordination.

Responsibilities included quality and quantity verification, subcontractor coordination and preparation/reconciliation of final work statements.



04 XARRE 110 kV SUBSTATIONS

INDEPENDENT ENGINEERING PRACTICE | ENERGY INFRASTRUCTURE

Structural engineering and supervision involvement within a broader portfolio of 110 kV, 220 kV and 400 kV substation assignments.

Demonstrates continuity of high-voltage civil/structural work across both established companies and independent consultancy.

Buildings & Developments

Representative sectors with open visual areas for future project evidence

01 TOURISM & PRIVATE RESIDENTIAL

Tourism service building in Sarande; private residences with underground levels and pools in Farke; villa development in Mjull-Bathore.



02 MIXED-USE & LARGE-SCALE

Selite residential/commercial development (approx. 13,700 m²);

Don Bosko development (approx. 22,000 m²); mixed-use work

Multifunctional complex in Rruga e Kavajes: MBC (Millenium business center) multifunctional complex



03 HEALTHCARE & TECHNICAL FACILITIES

German Hospital in Rruga e Kavajes, conversion in Tirana; administrative and technical facilities; execution drawings, site measurements and as-built reconciliation across earlier assignments.

Professional Experience

A career connecting structural design, field execution, supervision, coordination and client-side technical advice

SENIOR CIVIL & STRUCTURAL ENGINEER / TECHNICAL CONSULTANT

2022 - Present

Suela Aliaj P.F. - Independent Engineering Studio | Tirana, Albania

- Structural design, project verification, construction supervision and engineering consultancy for civil and energy-sector projects.
- Technical due diligence, owner/investor technical representation, site inspections, quality and quantity control and design-to-field coordination.
- Civil and structural engineering and supervision involvement across 110 kV, 220 kV and 400 kV substation assignments.

CIVIL / STRUCTURAL ENGINEER - PROJECT COLLABORATION

2020 - Present

SE.Eng.Consulting sh.p.k. | Tirana, Albania

- Structural engineering collaboration on tourism, residential and mixed-use developments of varying height and structural typology.
- Selected work includes assignments in Sarande, Farke, Mjull-Bathore and Kamez.

CIVIL / STRUCTURAL ENGINEER - DESIGN, CONSTRUCTION & SUPERVISION

2014 - 2023

Albaelettrica sh.p.k. | Tirana, Albania

- Structural design and supervision for the Extension of 400 kV Koman Substation and rehabilitation of the 110 kV Memaliaj Substation.
- Supervision of project execution, quantities and quality; subcontractor coordination; preparation and reconciliation of final work statements.
- Major assignments included the National Dispatch Center & New OST Headquarters.
- MBC (Millenium business center) multifunctional complex in Rruga e Kavajes.
- Individual houses 1,2 and 3 floors, with underground floor and technical facility and surrounding wall.

CIVIL / STRUCTURAL ENGINEER - DESIGN, CONSTRUCTION & SUPERVISION

2010 - 2013

TRIPOD 2010 sh.p.k. | Tirana, Albania

- Structural modelling and reinforced-concrete design with STEREOSTATIKA and ETABS Nonlinear; AutoCAD execution drawings; supervision and subcontractor coordination.
- Selected project: residential and commercial building, Selite, Tirana - approx. 13,700 m2.

ELMAER sh.p.k. | Tirana, Albania

- Structural and site engineering for the German Hospital conversion and a residential/commercial development in Don Bosko - approx. 22,000 m2.
- Bills of quantities, material breakdowns, cost analysis, drawing checks, site measurements, reconciliations and final quantities.

PROFESSIONAL STRENGTHS

DESIGN + SITE	INDEPENDENT JUDGMENT	ENERGY INFRASTRUCTURE	CLIENT-SIDE ADVICE
Connects analysis and execution realities.	Reviews risk, quality, quantities and cost.	Long-term 110 / 220 / 400 kV exposure.	Supports owners and investors with clarity.

Education, Training & Professional Foundation

Technical depth supported by project-cycle, budgeting, contracting and monitoring knowledge

ISSAT | EU-FUNDED PROJECT DEVELOPMENT

GRANT APPLICATIONS • LOGICAL FRAMEWORK APPROACH • PROJECT CYCLE MANAGEMENT • BUDGETING & PRAG

Training focused on the development and structuring of EU-funded projects, from concept and problem analysis through donor alignment, application preparation, Logical Framework, implementation planning, budgeting, PRAG-compliant delivery, monitoring, reporting and evaluation.

- EU and donor grant applications: call research, partner identification, administrative and technical requirements and concept-note development.
- Logical Framework Approach and Project Cycle Management: problem analysis, objectives, results, activities, indicators, assumptions and responsibilities.
- Budgeting and implementation: activity-cost linkage, budget categories, partner allocation, subcontracting, work plans, deadlines and PRAG rules.
- Monitoring, reporting and evaluation: narrative and financial documentation, eligible expenditure, visibility, interim/final evaluation and independent review.

SELECTED EDUCATION & SPECIALIZED TRAINING

CIVIL ENGINEERING - STRUCTURAL ENGINEERING PROFILE | Polytechnic University of Tirana, Faculty of Civil Engineering | 1998 - 2003

INTERNATIONAL POSTGRADUATE COURSE IN URBAN ISSUES | POLIS University / IHS, Erasmus University Rotterdam | 2013

INTERNATIONAL POSTGRADUATE COURSE IN "ASEISMIC DESIGN & CONSTRUCTION OF BUILDING STRUCTURES" | IZIIS, Skopje | 2006

TECHNICAL TOOLS, LANGUAGES & CAREER FOUNDATIONS

TECHNICAL TOOLS	AutoCAD ETABS Nonlinear SAP2000 Nonlinear StereoSTATIKA Microsoft Excel / Office
LANGUAGES	Albanian - Native English - Very good Italian - Very good
DESIGN EARLY CAREER	Studio Ing. Agron Hysenlliu (2007-2011) Studio Ing. Agim Seranaj (2005-2007) Studio Ing. Bledar Ceka (2004-2006) GJINI & 1000 Co. (2003)

PROFESSIONAL POSITIONING

Independent engineering judgment for projects where design quality, site reality, cost, documentation and investor interests must remain aligned.

Available for structural design, technical consultancy, construction supervision, owner's-engineer assignments and international project collaboration.

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