

JUST DESIGN

METRANS ENGINEERING



METRANS ENGINEERING
— JUST DESIGN —



ABOUT US

METRANS ENGINEERING
JUST DESIGN

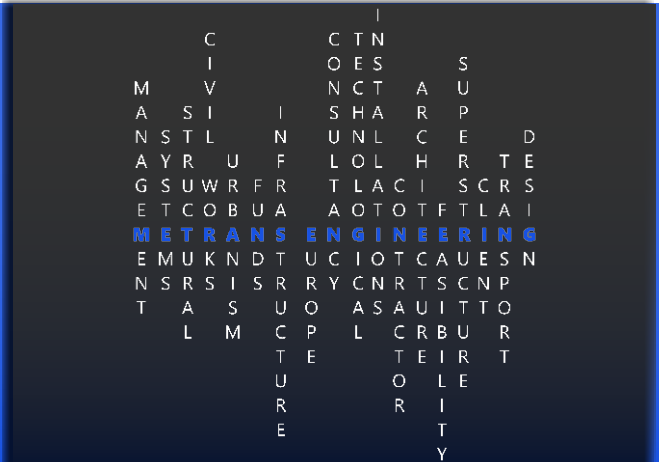
METRANS ENGINEERING is a company founded in 2018, with an integral Romanian capital that aims to respond effectively to any type of Client.

METRANS ENGINEERING is specialized in providing integrated and multidisciplinary solutions for underground and overground public transport infrastructure and civil engineering.

Our motto **JUST DESIGN** requires creativity and leads to integrated solutions found in **METRANS ENGINEERING** projects, which take into account the requirements of the Clients. In this way **JUST DESIGN** gives rise to functional, easy to exploit, structurally stable constructions and cost-effective technological systems and installations.

All phases for implementing the investment, from concept to rigorous site tracking, are carried out by a team of multidisciplinary experts - employees and partners, thus bringing safety measures to the value of our clients' investments, with an integral Romanian capital that aims to respond effectively to any type of Client.

METRANS ENGINEERING is represented by a dynamic team of experts with more than 15 years of experience in designing and consultancy services for subway infrastructure, public transport especially underground and civil engineering. Our engineers and architects, designers and construction management consultants are mobilized to respond to our clients challenges with tailored analyzes and solutions for long term. We are also aware of social responsibility, providing solutions that bring together a sustainable, natural / safe and built environment.



AREAS

OF ACTIVITY



STRUCTURAL FUNDS FINANCING
EUROPEAN/ GOVERNMENTAL/
COMMERCIAL/ OTHER FINANCIAL INSTITUTIONS



CONSULTANCY AND
PROJECT MANAGEMENT



TRANSPORT PLANNING
SUPERSTRUCTURE, INFRASTRUCTURE
AND PUBLIC UTILITIES



TECHNOLOGICAL SYSTEMS AND
INSTALLATIONS
FOR CONSTRUCTION



ARCHITECTURE, URBAN PLANNING AND
ENVIRONMENTAL IMPACT ASSESSMENT



CIVIL WORKS DESIGN



OF ACTIVITY

AREAS



STRUCTURAL FUNDS FINANCING
**EUROPEAN/ GOVERNMENTAL/
COMMERCIAL/ OTHER FINANCIAL
INSTITUTIONS**

Management process, starting with the idea of investing and ending with the commissioning of an investment, is complex



**CONSULTANCY AND
PROJECT MANAGEMENT**

In order for a management to lead to the success of a project, it is necessary to go through a process that mainly involves:



**TRANSPORT PLANNING
SUPERSTRUCTURE, INFRASTRUCTURE
AND PUBLIC UTILITIES**

- preliminary preparation (pre-feasibility / feasibility);
- preliminary and detailed design, procurement and contracting (preparation of awarding documentation, especially technical and qualification requirements for the selection of contractors to ensure the achievement of the projected parameters of the investment);
- approvals and authorizations, follow-up of the implementation of the contract; reception at the completion of the works and commissioning.



**TECHNOLOGICAL SYSTEMS AND
INSTALLATIONS
FOR CONSTRUCTION**



**ARCHITECTURE, URBAN PLANNING
AND ENVIRONMENTAL IMPACT
ASSESSMENT**



CIVIL WORKS DESIGN

There is no investment where there is no problem. It is important that management anticipates the contingency and finds the methods by which the team responds quickly to both anticipated and current issues.



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INSTITUTIONS



**CONSULTANCY AND
PROJECT MANAGEMENT**



TRANSPORT PLANNING
SUPERSTRUCTURE, INFRASTRUCTURE
AND PUBLIC UTILITIES



TECHNOLOGICAL SYSTEMS AND
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ASSESSMENT



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For public and private Clients wishing to invest in a successful idea, we offer the support and possibility of financing through European/ governmental funds, other international financial institutions, global, European, Asian funds depending on the project objectives, by fitting the procedures of each financing entity.

In this respect, we will take the following steps:

- We listen to your idea, we understand the business and together we identify the best strategies to achieve the objectives;
- We fit your project into a European Funding Program and set the eligibility criteria for funding;
- We prepare the financing offer, provide advice on the management of the resources, objectives and scope of the project.

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**CONSULTANCY AND
PROJECT MANAGEMENT**



**TRANSPORT PLANNING
SUPERSTRUCTURE,
INFRASTRUCTURE
AND PUBLIC UTILITIES**



**TECHNOLOGICAL SYSTEMS AND
INSTALLATIONS
FOR CONSTRUCTION**



**ARCHITECTURE, URBAN PLANNING
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ASSESSMENT**



CIVIL WORKS DESIGN

Our team transport planners and traffic engineers have experience in providing innovative solutions across transport infrastructure projects:

- Major corridor studies;
- Strategic master planning;
- Urban development plan;
- Traffic impact assesments.

METRANS ENGINEERING designs according to the standards and norms related to each mode of transport, taking into account to the employer requirements:

- Establishing the best alignment with the help of dedicated software;
- Designing the transport suprastructure in accordance with traffic characteristics and transport modes.



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— JUST DESIGN —

METRANS ENGINEERING ensures the coordination of public utilities and their design through collaboration with public utilities owners and authorized companies.

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CONSULTANCY AND
PROJECT MANAGEMENT



TRANSPORT PLANNING
SUPERSTRUCTURE,
INFRASTRUCTURE
AND PUBLIC UTILITIES



**TECHNOLOGICAL SYSTEMS AND
INSTALLATIONS
FOR CONSTRUCTION**



ARCHITECTURE, URBAN PLANNING
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ASSESSMENT



CIVIL WORKS DESIGN

METRANS ENGINEERING
develops projects for a wide
range of specialties in a flexible,
complex and well structured
system: low and high voltage,
electromechanical systems, fire
prevention and extinguishing
systems, smoke extraction
systems.



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OF ACTIVITY



ACCESARE FONDURI STRUCTURALE
EUROPENE/ GUVERNAMENTALE/
COMERCIALE/ ALTE INSTITUȚII
FINANCIARE INTERNAȚIONALE



CONSULTANȚĂ ȘI
MANAGEMENTUL
PROIECTELOR DE INVESTIȚIE



PLANIFICARE ÎN TRANSPORT
SUPRASTRUCTURĂ/
INFRASTRUCTURĂ TRANSPORT ȘI
REȚELE EDILITARE



SISTEME TEHNOLOGICE
ȘI INSTALAȚII AFERENTE
CONSTRUCȚIILOR



**ARHITECTURĂ, URBANISM ȘI
IMPACT ASUPRA MEDIULUI**



STRUCTURĂ DE REZISTENȚĂ



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AREAS

In architecture and urbanism, concept is the one through the investment object satisfies the requirements of the beneficiary in a balanced way, integrating them into an existing urban layout, taking into account the environmental impact.

Globally, Environmental Impact Assessment is recognized as a tool for achieving sustainable development.

The EIA process must proffer mitigation measures to avoid, reduce or minimize the negative impacts on the environment, public health and property and may highlight the foreseeable positive impacts.

The principles of architecture and urbanism applied to an investment object are intended to provide the citizen with both a positive visual impact and a functional element that has an impact on the quality of life.

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STRUCTURĂ DE REZISTENȚĂ



METRANS ENGINEERING
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Ensuring construction resistance and stability is achieved through dedicated softwares that use the finite element method but also by using software notes compliant with Eurocode rules. Our team is therefore ready to provide solutions that are applicable in any European country and beyond. The detailing of reinforced concrete and metal structures is achieved by softwares that provide automatic generation of reinforcement extractions and steel element cuts: parts, welded assemblies.

METRANS ENGINEERING treats structural calculation and detailing as being aware of the fact that a judiciously calculated and precisely detailed structure implies the stability of our Clients investment at an optimum price.

EXPERIENCE

LAST 15 YEARS:

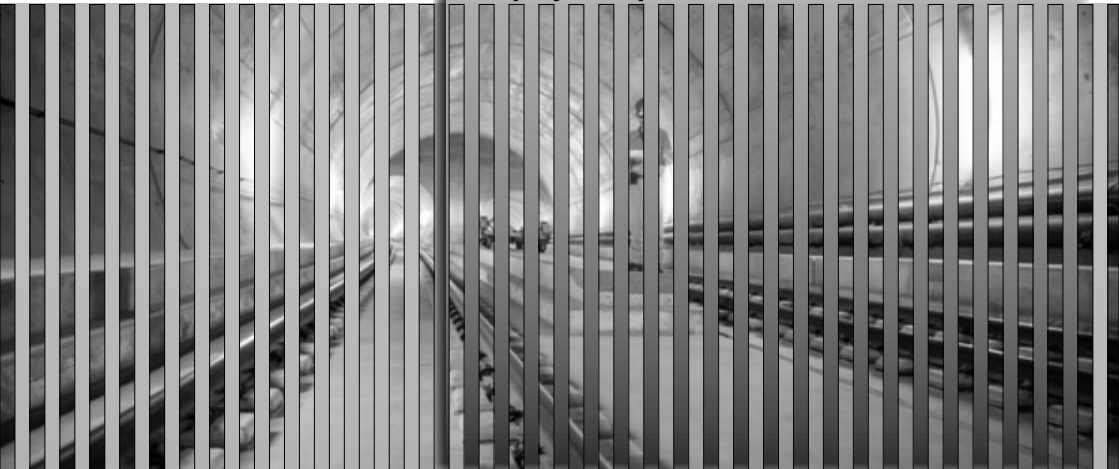
INVESTMENTS

**for public transport
in subway infrastructure**

- We participated in the establishment and implementation of technological solutions for all new subway lines in the Bucharest network, starting from the pre-feasibility / feasibility study, until the elaboration of the Technical Design, Tender Documentation, Details for Execution, Commissioning Tests;
- We participated in the modernization of the existing subway lines, implementing modern state-of-the-art solutions, in accordance with the legislation in force;
- We elaborated the application forms and all necessary documents in order to obtain European financing through SOPT and LIOP operational programs.

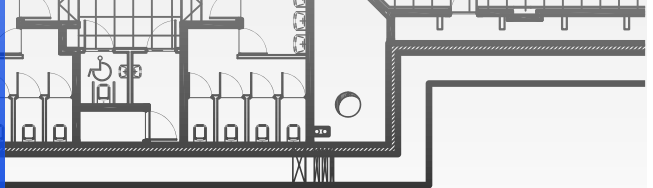
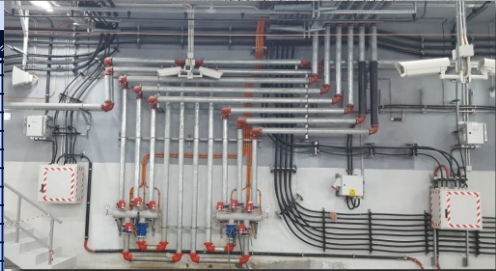
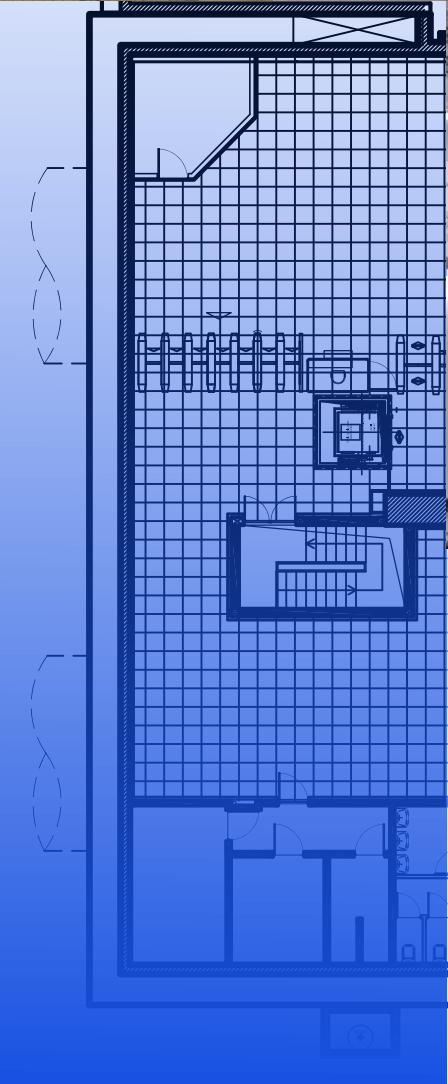
**INVESTMENTS
for buildings**

- We have participated in the establishment and implementation of technical solutions for a large range of civil engineering, with the following functions: residential, educational, industrial, administrative and medical;
- We elaborated the application forms and all necessary documents in order to obtain European financing in order to ensure the budget needed for the project implementation.





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HOW WE DESIGN?

Our projects follow the standard content stipulated by GD907/2016 for new investments and all necessary technical and economic documentations.

CONCEPTUAL NOTE
THERM OF REFERENCE

PRE-FEASIBILITY STUDY
FEASIBILITY STUDY

DOCUMENTATION FOR
THE SUBMISSION OF
INTERVENTION WORKS

TECHNICAL DOCUMENTATION
FOR BUILDING
CONSTRUCTION PERMIT

TECHNICAL DOCUMENTATION
FOR BUILDING DEMOLISH,
SITE ORGANISATION PERMIT

TECHNICAL DESIGN
AND DETAILS
FOR EXECUTION



HOW WE DESIGN?

CONCEPTUAL NOTE

THERM OF REFERENCE

PRE-FEASIBILITY STUDY
FEASIBILITY STUDY

DOCUMENTATION FOR
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TECHNICAL DOCUMENTATION
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TECHNICAL DESIGN
AND DETAILS
FOR EXECUTION

CONCEPTUAL NOTE

- **General information on the proposed investment objective;**
- **The necessity and opportunity of the proposed investment objective;**
- **Estimation of the sustainability of public investment;**
- **Information on the legal, economic and technical regime of existing land and / or construction;**
- **Particularities of the proposed site (s) to achieve the investment objective;**
- **Short description of the technically and functionally proposed investment objective:**
- **Justification for the need to develop, as appropriate,:** - the pre-feasibility study for major investment objectives / projects; - technical expertise and, where appropriate, energy audits or other relevant studies, audits or analyzes, including diagnostic analysis, for existing building interventions; - a study to substantiate the value of the cultural resource related to the restrictions and permissivities associated with the investment objective, in the case of interventions on historical monuments or in protected areas.

THERM OF REFERINCE

- **General information;**
- **Data identifying the investment objective.**



HOW WE DESIGN?

CONCEPTUAL NOTE
THERM OF REFERENCE

**PRE-FEASIBILITY STUDY
FEASIBILITY STUDY**

**DOCUMENTATION FOR
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TECHNICAL DOCUMENTATION
FOR BUILDING
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SITE ORGANISATION PERMIT

TECHNICAL DESIGN
AND DETAILS
FOR EXECUTION

A. WRITTEN PARTS

- **General information about the investment objective;**
- **Existing situation and need to achieve the investment objective / project;**
- **Identifying, proposing and presenting at least two scenarios / technical-economic options for achieving the investment objective;**
- **Analysis of each proposed / each scenario / proposed technical / economic option (s);**
- **Scenarios / optimal technical / economic option, relinquished;**
- **Urbanism, agreements and approvals;**
- **Implementation of the investment;**
- **Conclusions and recommendations.**

B. DRAWING PARTS

- **Land use plan;**
- **Site plan;**
- **General drawings, facades and characteristic sections of quoted architecture, principle schemes for resistance and installations, volumes, functional schemes, isometrics or specific plans, as the case may be;**
- **General plans, characteristic longitudinal and transverse profiles, quoted, specific plans, as appropriate.**



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HOW WE DESIGN?

CONCEPTUAL NOTE
TERM OF REFERENCE

PRE-FEASIBILITY STUDY
FEASIBILITY STUDY

DOCUMENTATION FOR
THE SUBMISSION OF
INTERVENTION WORKS

**TECHNICAL DOCUMENTATION
FOR BUILDING
CONSTRUCTION PERMIT**

**TECHNICAL DOCUMENTATION
FOR BUILDING DEMOLISH,
SITE ORGANISATION PERMIT**

TECHNICAL DESIGN
AND DETAILS
FOR EXECUTION

A. WRITTEN PARTS

- **Signatures of designers list;**
- **Technical description:**
- **General data;**
- **Specialty technical description;**
- **Data and indices that characterize the projected investment;**
- **General worksheet;**
- **Appendices to the technical description.**

B. DRAWING PARTS

- **General plans;**
- **Specialty drawings:**
- **Architecture;**
- **Structure;**
- **Electromechanical, power supply, low voltage drawings;**
- **Technological facilities and installations.**



HOW WE DESIGN?

CONCEPTUAL NOTE
THERM OF REFERENCE

PRE-FEASIBILITY STUDY
FEASIBILITY STUDY

DOCUMENTATION FOR
THE SUBMISSION OF
INTERVENTION WORKS

TECHNICAL
DOCUMENTATION
FOR BUILDING
CONSTRUCTION PERMIT

TECHNICAL
DOCUMENTATION FOR
BUILDING DEMOLISH,
SITE ORGANISATION PERMIT

**TECHNICAL DESIGN
AND DETAILS
FOR EXECUTION**

A. WRITTEN PARTS

- **Technical Description;**
- **Presentation of the scenario (s) approved in the feasibility / endorsement documentation of the intervention works;**
- **Technical description on specialties**
- **Calculation calculations;**
- **Task booklets;**
- **Lists of works;**
- **Public investment implementation chart.**

B. DRAWING PARTS

- **General drawings;**
- **Planes related to the specialties:**
- **Architecture drawings**
- **Structure drawings;**
- **Electromechanical, power supply, low voltage drawings;**
- **Machinery and technological equipment screens;**
- **Layouts of equipment.**

C. DETAILS FOR EXECUTION



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WHO ARE WE?



STRUCTURAL FUNDS FINANCING
EUROPEAN/ GOVERNMENTAL/
COMMERCIAL/
OTHER FINANCIAL INSTITUTIONS

GENERAL DIRECTOR
ENG. RADU DUMITRU

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CONSULTANCY AND
PROJECT MANAGEMENT

BUSINESS DEVELOPMENT DIRECTOR
ENG. IONEL OPREA

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TRANSPORT PLANNING,
SUPERSTRUCTURE,
INFRASTRUCTURE AND
PUBLIC UTILITIES

HEAD OF TRANSPORT PLANNING, SUPERSTRUCTURE,
INFRASTRUCTURE AND PUBLIC UTILITIES DEPARTMENT
ENG. MARIUS VLĂSCEANU

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TECHNOLOGICAL SYSTEMS AND
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FOR CONSTRUCTION

HEAD OF TECHNOLOGICAL SYSTEMS AND INSTALLATIONS
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ARCHITECTURE, URBAN
PLANNING AND
ENVIRONMENTAL IMPACT
ASSESSMENT

HEAD OF ARCHITECTURE, URBAN PLANNING AND
ENVIRONMENTAL IMPACT ASSESSMENT DEPARTMENT
ARCH. MĂDĂLINA TRICĂ

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CIVIL WORKS DESIGN

PROJECT ASSIGN PARTNER



DUMITRU RADU GABRIEL

GENERAL DIRECTOR

STRUCTURAL FUNDS FINANCING
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OTHER FINANCIAL INSTITUTIONS

UNIVERSITY STUDIES

**Electro-mechanical systems Engineer
(Heating, Ventilation, Air-conditioning, Power
supply, Water Supply, Sewage)**

U.T.C.B. – Technical University of Civil Engineering,
Bucharest

WORK EXPERIENCE



Metro Line 6

Feasibility Study; Transport demand study,
Cost benefit analysis, Preliminary Technical design
for Civil Works, Architecture, Electromechanical
and Power supply Systems, Low Voltage, Track,
Traffic Safety systems, Rolling Stock
documents for Civil Works, Architecture,
Electromechanical and Power Supply Systems, Low
Voltage, Track, Traffic Safety systems, Rolling Stock

Project Manager and European Funds Expert

Manager and European Funds Expert
Responsible in managing the
relation with the Client and Authorities (Ministry of Transport,
Bucharest and Ilfov Municipality, Aeronautical Authority, National
Road Company, Airport Authorities, Management Authority under
European Funds Ministry, Intermediate Body for European funds under
Ministry of Transport etc).

Responsible for preparing the Application Form for obtaining
European non reimbursable funds under LIOP 2014-2020 operational
programme.

Metro Line 5

Assistant Manager and European Funds Expert

Metro Line 4

Feasibility Study and General Cost
Estimate

Responsible for preparing the Application Form for obtaining
European non reimbursable funds under SOPT 2007 – 2013 and LIOP
2014-2020 operational programme Responsible in managing the
relation with the Client and Management Authority under European
Funds Ministry as well as Intermediate Body for European funds under
Ministry of Transport.

Metro Line 1,2,3

▪ Ventilation System modernisation.
Section Petrache Poenaru – Timpuri Noi
▪ Ticketing System modernisation
▪ Berceni – Pipera Modernisation

Civil Projects

Cargo Terminal at Iasi Airport;
Residential projects.
Kindergandens, Schools, Municipality
headquarters, Brukental Castle
refurbishment, Caraiman hotel/Busteni,
Boutique Hotel/ Bucharest

Heating, Ventilation, Air-conditioning, Power supply,
Water Supply, Sewage specialist on various technical
studies or other documentations

OPREA IONEL

BUSINESS DEVELOPMENT DIRECTOR CONSULTANCY AND PROJECT MANAGEMENT

UNIVERSITY STUDIES

Power Engineer -

Major in Energetics, Speciality: Power Engineering

University "Politehnica" of Bucharest, Energetic sector

WORK EXPERIENCE

Metro Line 6

Feasibility Study; relevant studies and analyses, preliminary basic design, documents for obtaining zoning certificate, approvals and agreements, environmental permit applications, urban planning documents related to local land use plans (PUZ), award documents of works contracts, services, procurement, including preparation and updating of project implementation programme, general cost estimate, itemised estimates of the projected costs, financial cost estimates.

Metro Line 5

Feasibility Study; relevant studies and analyses, preliminary basic design, documents for obtaining zoning certificate, approvals and agreements, environmental permit applications, urban planning documents related to local land use plans (PUZ), award documents of works contracts, services, procurement, including preparation and updating of project implementation programme, general cost estimate, itemised estimates of the projected costs, financial cost estimates.

Metro Line 4

Extension 2. Gara de Nord- Straulesti. Preparation of Feasibility Study and relevant studies and analyses, preparation for basic design and award documents, technical assistance throughout the execution of works, acceptance and commissioning.

Upgrading of installation systems on Lines 1, 2, 3 and Link Tunnel. Improvement of transport conditions on Line 2. Rolling track and intra-station systems

Metro Line 7

Deputy Project Manager

Assisted or replaced the Project Manager in supervising the project team of Line 6. 1 Mai- Otopeni in order to set the best technical-economic solutions for the preparation of design technical- economic documents for all project stages.

Project Manager

Supervised Line 5. Drumul Taberei- Pantelimon project team for the setting of best technical and economic solutions in order to prepare the design technical and economic documentations for all project stages.

Contract Manager (Deputy Project Manager)

Supervised performance of activities of the project team for Line 4. Extension 2. Gara de Nord- Straulesti throughout all project stages, Actively involved in project management through monitoring, control and permanent assistance provided to the project manager. Checked the Project strategic documents: EU funding applications, including project implementation programme, financial plan, acquisition and expenditure plan, general cost estimate.

Deputy Project Manager



VLĂSCEANU MARIUS



HEAD OF TRANSPORT PLANNING, SUPERSTRUCTURE, INFRASTRUCTURE AND PUBLIC UTILITIES DEPARTMENT

UNIVERSITY STUDIES

Geodesy Engineer

Specialty: Cadaster

Technical University of Civil Engineering,
Faculty of Geodesy, Bucharest

WORK EXPERIENCE

Metro Line 5

Feasibility Study; Documentations for obtaining the necessary approvals and agreements including for approval by Government Resolution; Basic Design; Documentations for Obtaining Urbanism Certificates, Approvals and Agreements, Planning Permission; Award Documentation of works contract

Deputy Project Manager

Assisted the Project Manager in supervising the project team in order to set the best technical solutions in order to prepare the design technical and economic documentations for all project stages.

Metro Line 2

Feasibility Study; Documentations for obtaining the necessary approvals and agreements including for approval by Government Resolution; Basic Design; Documentations for Obtaining Urbanism Certificates, Approvals and Agreements, Planning Permission; Award Documentation of works contract, services, procurement; EU funding applications; Funding applications from other international institutions

Project Manager

Supervising the project team in order to set the best technical solutions in order to prepare the design technical and economic documentations for all project stages.

PUZ Closure Ring Road Median in North. PUZ - Urban Motorway - the section between Lake Morii and Sos. Colentina

Contract Manager

Supervising the project team in order to set the best technical solutions in order to prepare the design technical and economic documentations for Feasibility Study and related analyses.

Tasks regarding transport infrastructure route management

Existing situation analysis of the studied area: overground / underground buildings, major public utilities routes, transport infrastructure, rivers, lakes, etc. Establishment of the optimal alignment and profile of the transport infrastructure in relation to information derived from existing situation. Establishing the track layout (main lines, technological lines, turnouts), type of transport infrastructure (gallery / station / tunnel / elevated).

Determining the tracing topographical coordinates of the structural elements. Coordinate, manage and adjust the track layout throughout the investment implementation period (design and execution). Designed and managed metro routes.

POPA LIVIU SEVER

HEAD OF TECHNOLOGICAL SYSTEMS AND INSTALLATIONS FOR CONSTRUCTION DEPARTMENT

UNIVERSITY STUDIES

Power Engineer -

Major in Energetics, Specialty: Power Engineering

University "Politechnica" of Bucharest, Energetic sector

WORK EXPERIENCE



Metro Line 5 Architectural and Installation works	Contract Manager Responsibilities regarding technical coordination and other activities during contract between the Contractor, Engineer;
Metro Line 5 Construction and installations works for metro stations utilities	Contract Manager Responsibilities regarding technical coordination and other activities during contract between the Contractor, Engineer;
Rehabilitation for electrical installations in 27 metro stations. Installations, architectural and structural works	Contract Manager Responsibilities regarding technical coordination and other activities during contract between the Contractor, Engineer;
Metro Line 4 Commissioning work contracts. Section 1 - Nicolae Grigorescu 2 - Anghel Saligny	Contract Manager Responsibilities regarding technical coordination and other activities during contract between the Contractor, Engineer;
Metro Line 4 Metro Line 5	Professional expertise as Head of Installation Projects Low voltage, medium voltage, DC traction, SCADA, HVAC system- ventilation and air conditioning, mechanical system- escalators, elevators and civil protection, water supply, fire safety and sewage systems) - designing phase
Feasibility Study ▪ Metro Line 4/5/6/7 ▪ Modernization for installations on metro lines 1,2 and 3. Feasibility study. ▪ Facilities for accessing the existing metro network for persons with disabilities.	E&M specialist on various technical studies or other documentations

TRICĂ

MĂDĂLINA



**HEAD OF ARCHITECTURE, URBAN
PLANNING AND ENVIRONMENTAL
IMPACT ASSESSMENT DEPARTMENT**

UNIVERSITY STUDIES

Architect-

University of Architecture and Urbanism «Ion Mincu»,
Bucharest

WORK EXPERIENCE

Metro Line 6

Concept and Architectural design

Architecture Project Manager

Concept design, elaborating feasibility study documentation for architecture, coordinating with the involved specialists, designing one of the station within Metro Line 6: Montreal Square

Metro Line 5

Concept and Architectural design

Architect, Consultant

Designing one of the station within Metro Line 5: Military Academy, elaborating documentation for Technical Project and Execution Details Consultancy and technical assistance during the implementation of the project

**Accessibility of metro stations in
operation for people with visual
impairments**

Architecture works

Contract Manager, Architecture Project Manager

Concept design, elaborating feasibility study documentation, delegating tasks within the working team, coordinating with the involved specialists, supporting the project in front of the Client and the Authorities involved in project approval, elaborating documentation for Technical Project and Execution Details

Metro Line 4

Commissioning works. Finishes and partitions. Jiului Station.

Architect, Consultant

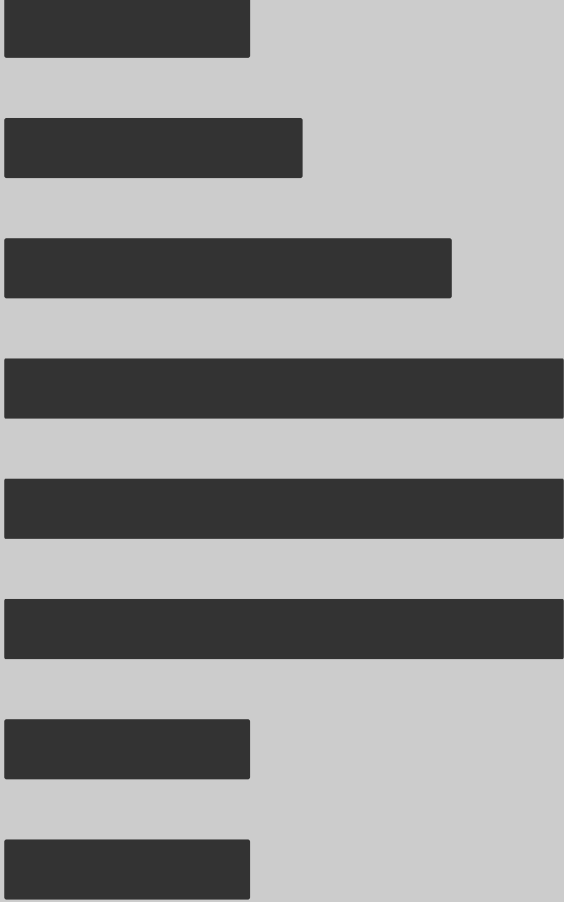
Designing one of the station within Metro Line 4: Jiului, elaborating documentation for Technical Project and Execution Details Consultancy and technical assistance during the implementation of the project

Civil Projects

Pedestrian underground passage between Mures Square and 1Mai Station; Improvement of traffic conditions-Obor Passage; Rehabilitation of Educational Infrastructure in Bucharest, Rehabilitation, modernization and equipping community center

Architect, Consultant

Concept design, elaborating feasibility study documentation for architecture, coordinating with the involved specialists, elaborating documentation for Technical Project and Execution Details



ELECTROMAGNETICA BUSINESS PARK

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CUI 39543312; J40/9129/2018

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