

PERSONAL INFORMATION

Aureliu Manicuta

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Sex Male | Date of birth 25/05/1985 | Nationality Romanian

JOB APPLIED FOR

Electrical engineer

WORK EXPERIENCE

07/05/2018–Present

Electrical Design Leader for Customer Execution Project

Expleo Group (former ASSYSTEM TECHNOLOGIES), Bucharest (Romania)

Client - SCHNEIDER Electric, Regional Application Center ED EMEAS Bratislava, Slovakia

☐ Checking the electrical design documentations (drawings, calculations & equipment specifications) received from the factories or subcontractor according to standards and Client requests. The design documentation could include the following equipment:

- MV Switchgears;
- 690 V MCC Switchboards;
- 400V Switchboards;
- UPS equipment;
- AC and DC distribution panels;
- Lightning panels;
- VSD panels.

☐ Attending (on request) to the technical discussions with the client or subcontractor, FAT, technical reception and commissioning of the equipment/installations.

☐ Checking the design documentations for the following project:

- SS9/PIB9 KPC GAS DEBOTTLENECKING (KGDBN) PROJECT, KARACHAGANAK PETROLEUM OPERATING B.V (KPO) Kazakhstan (2018 – present)

01/09/2017–04/05/2018

Electrical Design Engineer

ASSYSTEM TECHNOLOGIES FRANCE, Valenciennes (France)

☐ Assystem Romainia mission at Alstom Transport location in France with the following tasks:

- Establishing the initial design of cable routes and cable trays for different zones of the new RER NG train project in accordance with Alstom NEO (New Electrical Organization) methodology;
- Preparing and integrating the 3D drawings for cables routes and cables trays in different zones of the train using Catia V5 and 3DCom;
- Coordination with the others design disciplines: structures, pneumatics, HVAC in order to avoid clashes between cables accessories and other elements of the trains;
- Calculation of the conduits diameters for cables based on input data received from the client: list of cables, list of connectors, list of devices synoptic wiring diagram etc;

01/01/2015–01/09/2017

Electrical Design Engineer – Energy & Infrastructure Department

ASSYSTEM TECHNOLOGIES Romania, Bucharest (Romania)

Client - Assystem Radicon, Al-Khobar Saudi-Arabia

☐ Preparing design documentations (drawings and calculations) for electrical substations projects according to Client requests including the followings:

- Auxiliary Transformer sizing, DC Battery sizing;
 - Interfacing of vendor drawings (protection panels, auxiliary panels. LCC panels, MV Switchgears etc.);
 - Calculations for sizing of MV, LV cables, voltage drop calculations;
 - Preparation of AC/DC auxiliary single line diagrams and AC/DC panel board schedules;
 - Indoor and outdoor lighting system calculation;
 - Earthing system calculation;
 - Shielding system calculation;
 - Power cables routes (HV&MV) layout and sections drawings;
 - LV cables trays layout and sections;
 - Monitoring design submittals for accuracy, completeness and deadlines.
- ☐ Preparing design documentations for civil buildings related to electrical part including the followings:
- Written part (work and installations description) for High currents and Low currents chapters;
 - Indoor and Outdoor lighting calculations;
 - Layouts of high currents and low currents installations in coordination with architectural, civil and HVAC part in order to avoid the clashes.
- ☐ Checking the received documentations from Client or equipment's vendor in order to prepare detail design.
- ☐ Coordination with the others disciplines (Civil, Architecture, HVAC) in order to develop the design project.
- ☐ 3D Modelling of electrical installations (cable trays, lighting fixtures, sockets, cable conduits etc) in the BIM 3D model of the project based on the 2D drawings (ghosts) received from the client in order to avoid the clashes with other elements.
- ☐ Contributed of the followings design documentations:
- Construction of New 132/13.8kV AL-Safa #8305 Substation – Detailed Design, Riyadh, National Grid, Saudi Arabia 2015
 - Construction of New 132/13.8kV AL-Hazem #8282 Substation - Detailed Design ,Riyadh, National Grid, Saudi Arabia 2015
 - Construction of New 132/13.8kV AL-Maather#8233 Substation - Detailed Design ,Riyadh, National Grid, Saudi Arabia 2015
 - Construction of New 110/33/13.8kV WALI ALAHAD Substation - Detailed Design - MAKKAH, Saudi Arabia 2015
 - Construction of New 110/13.8kV HINDAWIAH Substation - Detailed Design - JEDDAH, Saudi Arabia 2015
 - Construction of New 110/13.8kV AL KAMEL Substation - Detailed Design - MAKKAH, Saudi Arabia 2015
 - Construction of New 110/33/13.8kV WALI ALAHAD Substation - Detailed Design - MAKKAH, Saudi Arabia 2015
 - Construction of New 132/13.8kV AL-RIYADH HOUSING-#8310 & #8311Substation - Detailed Design - ,Riyadh, Saudi Arabia 2016
 - Construction of New 132/13.8kV AL-KHARJ HOUSING-8730 (with work in 380/132/33/13.8kV - 9067 & 9068 remote end substations) Kharij, Saudi Arabia 2016
 - Construction of New 380kV Jazan substation for power plant connection to the grid - Jazan Industrial City, Saudi Arabia 2016
 - Construction of New 115kV U/G line between 380/115/13.8kV Half Moon substation and 115/13.8kV Die 4C substation - Dammam, Saudi Arabia 2016
 - Reconstruction of High School “Les Broussailles”-PRO design phase, Villes de Cannes, France 2016
 - Extension of Carré Sénart Commercial Centre – 3D Modelling of electrical installations in BIM 3D model, Paris, France 2017

01/02/2014–01/01/2015

Engineer - Green Energy Division

SC ADREM INVEST SRL, Bucharest (Romania)

- ☐ Preparing tender documentations (eligibility documentations and technical-economic proposals).
- ☐ Attending to technical discussions with the final client, general contractor or works executioner in order to develop the projects;
- ☐ Site assistance to execution for the electrical engineering part of the project.
- ☐ Attending (on request) to the tests, technical reception and commissioning of the equipment/installations.
- ☐ Follow up contracts terms related to projects (payments and executions works).
- ☐ Preparing monitoring reports for CHPP Suceava parameters - high efficiency cogeneration heating power plant with biomass that belongs 49% to SC Adrem Invest SRL , considering the following:
 - Workings hours,
 - Biomass and Diesel stocks,
 - Electricity delivered to RPS and invoiced at energy Market,
 - Electricity for own consumption,
 - Green certificates - collected and trade at GC Market,
 - Thermal power delivered to urban consumption and used for biomass dryer.
- ☐ Participation to the following activities:
 - Follow up contracts for CHPP Suceava works (payments and execution);
 - Attending to final test of CHPP Suceava commissioning for electrical part – March 2014;
 - Preparing tender documentations for the following projects:
 - Implementation of demolition works, dissolution, remediation / decontamination and ecological reconstruction on sites belonging to OMV Petrom SA – April 2014;
 - Improved water and wastewater infrastructure in the Aleșd town, Bihor Country. – May 2014.

01/11/2009–01/02/2014

Engineer - Electrical Substations Department

TRACTEBEL ENGINEERING SA, Bucharest

- ☐ Preparing technical documentations (all design phases) for to electrical substations - primary and secondary circuits (command, control, protection and auxiliary services).
- ☐ Attending to technical discussions with the final client, general contractor or works executioner.
- ☐ Site assistance (on request depending on design contract) for project execution for primary and secondary circuits works.
- ☐ Attending (on request) to the tests, technical reception and commissioning of the electrical substation.
- ☐ Preparing calculation summaries that could contain the followings (depending on the design phase):
 - dimensioning of substation's earthing installation;
 - dimensioning of substation's bus-bars system (HV and MV)
 - dimensioning of HV, MV cables related to electrical substation, wind farm or photovoltaic power plant;
 - determining lightning protection areas inside the electrical substation;
 - dimensioning of auxiliary services and Diesel generator considering the substation consumption;
 - dimensioning of substation lighting system considering lighting level requested by the client.
- ☐ Preparing design themes for other specialties (OHL, structures, arrangements, roads) or others partners.
- ☐ Contributed of the following design projects' elaboration:
 - New 110/15 kV Torun substation (Poland) – Conceptual and Detailed design; Tractebel Engineering Poland; 2013
 - New 110/20 kV Izvoarele 20+50 MW - Feasibility study, Technical project, Detailed design, As Built; LJG Green Source Energy Beta 2013

- 110 kV Toplet connexion substation - Basic Design and Tender Documentation; CEZ Distributie S.A; 2013
- 84 MW Dorobantu Wind Farm - 30/110 kV substation, MT and IT cables routes - Basic design and Detailed Design, DE; LuKErg Renew; 2013
- 400 kV Frecatei substation - Basic design and Tender Documentation; Transelectrica – ST Constanta; 2013
- New 400/110/33kV Făcăeni substation, Technical Documentation for Construction Permit, Basic Design, SC Ialomita Power SRL; 2012
- Topolog Wind Farm (27 MW) – MV cables routes and Wind Farm Earthing installation – Detailed Design - ENEL Green Power; 2012
- 20/110 kV Topolog EGPR (Gebeleisis) substation - Detailed Design – ENEL Green Power; 2012
- Capacitor banks mounting in the 30/110 kV Sălbatica substation – Technical project, Detailed Design – ENEL Green Power; 2012
- Giurgiu 45 MW Photovoltaic power plant – 20/110 kV Giurgiu substation, 110 kV ENEL substation – Technical project, Detailed Design – LJG Green Source Energy Alpha S.R.L; 2011
- Cobadin wind farm - MV/110 kV Cobadin substation and 110 kV EDPR substation – Feasibility Study, Construction permit documentation, Tender documentation, Technical project – EDP Renewables; 2011
- Designing services for Megidia Sud 296 MW wind farm – 33/110/400 kV substation, MV cables routes – Construction permit documentation, Technical project, Detailed Design – S.C. Ecovariant Proiect S.R.L; 2011
- Shunt reactors mounting in the 30/110 kV Sălbatica substation – Technical project, Detailed Design – ENEL Green Power, 2011;
- 30/110 kV Corugea Substation – Technical Project and Detail Design – ENEL Green Power 2011
- 30/110 kV Salbatica Substation – Technical Project and Detail Design – ENEL Green Power, 2010
- 110/20 kV Movila Vulpilor substation – Technical Project, Detail Design, AS BUILT – F.D.F.E.E. Electrica Muntenia Nord; 2010
- Extension of the 400 kV Cernavoda electrical substation for connection CNE units U3 and U4 to SEN – Feasibility study – TRANSELECTRICA ST Constanta; 2010
- Mihai Viteazu wind farm – MV cables routes – Technical Project and Detailed Design – Iberdrola Ingenieria Y Construcccion; 2010
- 110/30kV Valea Nucarilor substation – AS BUILT – ENEL Green Power; 2010
- RK and modernization of the 220/110/20 kV Gheorgheni substation – AS BUILT – TRANSELECTRICA ST Sibiu; 2010
- 110/20 kV Triaj Braşov substations and connections – AS BUILT – F.D.F.E.E. Electrica Transilvania Sud; 2010
- Modernization of the 220/110 kV Isalnita substation – AS BUILT – TRANSELECTRICA ST Craiova; 2009.

01/06/2009–01/11/2009

Engineer - Marketing Department

SC ELECTROMAGNETICA SA, Bucharest (Romania)

- ☐ Offers requests and technical-economic analysis for small hydro power plants (SHPP) mechanical and electrical equipment.
- ☐ Site assistance for works related to SHPP modernization program.
- ☐ Follow up the contracts for SHPP investment program.
- ☐ Elaboration of monitoring reports for SHPP operation parameters (energy produced, working hours, etc.).

01/08/2006–01/06/2009

PC Operator - Marketing Department

SC ELECTROMAGNETICA SA, Bucharest (Romania)

- ☐ Editing documentation for products.
- ☐ Analyse of competing products.
- ☐ Elaboration of graphics processing.
- ☐ Developing internal and external offers
- ☐ Electronic archiving of documents,
- ☐ Administration of Department's PCs Network

EDUCATION AND TRAINING

2015–2015 **ANRE authorized electrician, IVth B degree - Execution of electrical facilities with any installed power and with any nominal voltage level.**

2013–2013 **Complete the course "SCADA applications development" from the project COMHIGHTEC, April 2013**

2012–2012 **ANRE authorized electrician, IVth A degree - Design of electrical facilities with any installed power and with any nominal voltage level.**

2009–2011 **Master in Natural Resources Management and Environment Economy**

National classification
10

Polytechnic University of Bucharest - UNESCO Department, Bucharest (Romania)

Title of dissertation paper: "Wind turbines - Solution or problem?"

2004–2009 **Engineer in electrical power engineering**

National classification
8.95

Polytechnic University of Bucharest - Faculty of Power Engineering, Power systems section, Bucharest (Romania)

Title of graduation paper: "LED using for an efficient lighting system".

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C2
French	B2	B2	B1	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good technical knowledge of English and French;
- Good communication skills, availability for teamwork;

Organisational / managerial skills

- Serious, optimist, open minded, always eager to learn something new.
- Technical and organizational initiative, sense of duty, responsibility, capacity of analysis, highly-

organized and motivated.

Job-related skills

- Electrical engineer with 10+ years' experience in electrical area, specialized in electrical substations design (primary and secondary circuits – all voltage levels), underground cables lines (MV and HV), cables routes design for trains vehicles and electrical installations related to civil buildings.
- Experience in working with international clients.
- Good knowledge of Romanian and international standards, rules and regulations related to electricity and energy sector.
- Good knowledge of electrical and civil design software.

Computer skills

- Experience in using software for electrical and civil design: Bentley Microstation, Catia V5 (EHI&SMD modules) AutoCAD, Revit, Eplan, DiaLux;
- Knowledge of analysis software: Neplan, ETAP, Matlab, MathCad,;
- Good abilities in Microsoft Office: Word, Excel, Power Point, Outlook, Visio, Pictures Manager;
- Others Software: Adobe Photoshop, Corel Draw.