

ROTARU FLORIN



CAD SPECIALIST

Years of experience

10 Mechanical
Engineering
9 Electrician

Language skills

English
Russian

Years with AECOM

2

Nationality

Romanian

Education

B.Sc. – Mechanical Engineering
Master 'degree - New design technologies

Mr. Rotaru has a BSc Degree in Mechanical Engineering, with a Diploma for Oil Field Equipment. He has over 10 years of experience at mechanical engineering, detailed designer and CAD. These skills have been effectively used on many projects while executing. He uses his knowledge and experience to ensure that each project is performed on time, within budget, and completed in a high-quality manner to the satisfaction of the company for the feasibility studies, proposals and projects executed in the office.

He currently manages software for each project in BIM/CAD department for performed on time and give supports for the teams in the project

Professional history

2+ years of experience in computer aided engineering and design. 11 years of experience as Mechanical Engineering
9 years as Electrical:

Aecom professional history

- Configuration, implementation, maintenance of computer aided engineering applications in the field of computer aided design.
- Procedures for developing data exchange between design software.
- Software testing before being put into production.
- Support for all GDS users using point cloud and software design.
- Point cloud surface extraction using Civil 3D into testing projects.
- The Capture 3D the terrestrial models using Autodesk Infravworks and coordinate them with cloud point, Inventor and other applications.
- Support for modeling and training in Inventor using in 3D models with parts, assembly, drafting and ILogic components
- Settings for virtual desktop environment
- Managing the BIM 360 work platform as administrator
- Managing the contents for Revit and Plant3D

SOFTWARE USED

- NavisWorks
- Revit
- CadWorx
- Autocad Plant 3D
- Autocad Plant P&ID
- Inventor

Rotaru Florin
CAD Specialist

- Solidedge
- Catia
- Solidworks
- Creo Parameters

Selected project experience

November 2017 – Present

**CAD SPECIALIST II ,
DIGITAL ENGINEER
BIM COORDINATOR**

- Responsible for managing CAD hardware and software systems for the design teams;
- Identify opportunities and recommendations for increasing workflow efficiencies;
- Recommend best practices for solutions to meet customer business needs.
- Configuration, implementation, maintenance of computer aided engineering applications in the field of computer aided design

List of Projects AECOM

➤ **Project: Barcarena**

- Responsible for:
- BIM Coordinator for GDS Romania in collaboration with AECOM UK
- Implemented a workflow into the project using Autodesk Infraworks, Civil3D, Plant3D and Revit
- Coordinate all models for client and for 4D Simulation

➤ **Project: Dandine**

- Responsible for:
- BIM Coordinator for GDS Romania in collaboration with AECOM ANZ
- Manage database for Plant3D project
- Coordinate models

➤ **Project: Apa**

- Responsible for:
- BIM Coordinator for GDS collaboration with AECOM ANZ
- Manage of workflow with level of detail in Advance Steel.
- Coordination of the models according to the data from the site

➤ **Project: Sun Metals**

- Responsible for:
- BIM Coordinator for GDS collaboration with AECOM ANZ
- Manage of workflow with level of detail in Revit.
- Development of families for the project
- Coordination of the models according to the data from the site
- Managing changes using Revit for design review
- Data exchange using Dynamo

**From March 2017 to November 2017,
BIM Coordinator**

**Company: Tebodin Consultants &
Engineers SRL (Bucharest Office)**

Responsibilities:

- Manage database settings for PLANT3D
- Manage database settings for Revit
- Assigned to Tebodin Netherland Elslloo Office
- Responsible for align with others office from Tebodin Europe

**From March 2017 to January 2016, Mechanical Engineer
Company: Tebodin Consultants & Engineers SRL (Ploiesti Office)
Project: Haval Motor Manufacturing Russia LLC
Client: Great Wall Motors**

Responsibilities:

- Manage database settings for PLANT3D, Navisworks and Revit
- Manage general arrangement, isometrics and 3D Models
- Owner for four buildings
- Detailed 3D modelling of equipment, pipe routings according to P&ID's, supports using Plant 3D, piping classes with respect to GOST (including client regulations) and input for equipment data sheet. Pipe support design in accordance with stress analysis requirements. Plot plan, General Arrangement, extract the isometrics from the 3D model for the utility systems of a car factory

From October 2015 to December 2015, Mechanical Engineer

Company: Tebodin Consultants & Engineers SRL (Ploiesti Office)

Project: Haval Motor Manufacturing Russia LLC

Client: Great Wall Motors

Responsibilities:

- Assigned to Tebodin Ukraine CFI Lviv Office for tender phase and I was involved for basic piping studies, 3D routing using Revit MEP according to P&IDs, and modelling equipment, general arrangement of piping and equipment, MTO for the utility systems of a car factory (automotive industry), piping input for CAPEX

From February 2013 to October 2015, Mechanical Engineer

Company: Tebodin Consultants & Engineers SRL (Ploiesti Office)

Project: S.C. OMVPetrom S.A.

Responsibilities:

- 3D piping routing using Cadworx, Isometrics
- Modeling and documentation for Detail design for Burcioaia & Madulari
- Site survey for Petrom project
- Detail design for Petrom project
- Conceptual / Feed phase for Petrom project
- Data sheet (static and dynamic equipment)
- Drawings for Equipment
- Specifications for Equipment
- Installation Manual
- Calculation Notes for vessel pressure and tank

From November 2009 to February 2013, Mechanical Engineer

Company: SC Uzuc Proiect SRL Ploiesti

Projects for NUOVO PIGNONE AND THOMASEN.

Responsibilities:

- Preparation of final documentation using AutoCAD software (approval drawings and execution details of pressure vessels and mechanical constructions: constructive dimensions, measurement reports, welding joints and their appropriate nondestructive examination, in accordance with applicable normative and/or client's requirements) ASME Code Sect VIII, EN 13445, Ped 5500

From August 2007 to February 2009, Mechanical Engineer

Company: SC IPIP S.A.

Projects for LUKOIL AND PETROBRAZI REFINARY.

Responsibilities:

- Calculation of existing equipment in the refinery project supervision verifier. Preparing detail drawings of equipment in the plant refinery for Lukoil and Petrobrazil

From August 1998 to July 2007, Electrician

Company: SC Spoting S.A

Projects for LUKOIL AND PETROBRAZI REFINARY.

Responsibilities:

- Installation for protection against accidental touch voltages
- Installation of lightning protection of buildings against the effects
- Mounting apparatus and elements of measurement and control equipment and technological pipelines
- Plants signal for transmitting information, and installation of
- Attendants electricians used as heating systems (switches, pots and
- Containers for technological equipment)

Additional Experience

- CAD & BIM
- Digital Information
- Data exchange
- VR / Simulation 3D Models for Projects 4D & 5D
- Scans BIM and Digital Twin

Specialized training

- Autodesk AutoCAD Plant3D P&ID – Certificate (January 2017);
- Autodesk AutoCAD Plant3D 3D Modeling – Certificate (January 2017);