

## **SNEZANA RAFAILOVIC, Civil Engineering**

Senior Civil & Structural Technician and 3D modeling

### **SUMMARY**

With over thirty years of experience, I am a Civil Engineering Technician specializing in Civil Structural Design and 3D modeling. Skilled in working, managing, and supervising multiple projects, focusing on creating detailed drawings for concrete and precast concrete structures, including rebar drawings and specifications for various building constructions.

- My expertise includes preparing one part of architectural and electrical design projects. I am knowledgeable in industry standards such as PBAB, BS, SNIP, EUROCODE, and ACI 318, ensuring compliance and quality in work.

I am also proficient in a range of software applications, including AutoCAD, Autodesk Revit, Arm CAD - Professional software for reinforcement detailing, Allplan, SketchUp, Advance Steel and Bluebeam.

### **EXPERIENCE**

#### **2023-present                                      RCM Technologies Serbia – Energy Services Division**

- **Responsible Engineer Designer of Substation for primary installations/ Senior Civil & Structural Technician**
  - Primary team, Serbia and Civil Structural Group, U.S.
  - Collaboration with the engineering design team to prepare technical documentation for designing high-voltage and medium-voltage substations and to provide design support for mechanical and electrical projects.
  - Detailed preparation of Structural & Civil project documentation, drawings of formwork and concrete reinforcement, and BBS specifications - shop drawings & steel drawings.
  - Reviewed and monitored project documentation for various disciplines and 3D modeling and provided technical support to ensure compliance with regulations.
  - Worked on various projects including different clients:
    - Soltegro Netherland (Harderwijk 150kV, Qirion FW Almere, Qirion FW Zeewolde, Kelpen 150kV Primary, Meeden 380kV).
    - Station Utrecht Lage Weide 150kV, Station Lelystad 380kV.
    - Omnia UK, Asset Interventions
    - RCM Technologies, Inc. U.S. (Brooklyn Clean Energy Hub, Gowanus New Feeder Install, Eastern Queens & Idlewild Substations).
  - Assistance and preparation for substation design (plant layout, sections, and details).
  - Preparation and revision of civil & structural design - shop drawings.
  - Daily communication with the structural team in the U.S. regarding project status and deadlines.

**2022-2023**

**Jadran, Belgrade, Serbia**

▪ **Senior Civil Engineering Technician**

- Working as a Contracting and Preparation Officer, I reviewed and controlled technical and general documentation. For each project, I wrote reports, provided comments, tracked all the changes that were implemented, and kept records of all documentation.
- Reviewed project documentation for all disciplines, and provided technical support, ensuring compliance with regulations and efficient project execution.
  - Volleyball Training Center, New Belgrade, Serbia
  - Indoor swimming pool in Gornji Milanovac, Serbia
  - Regional sanitary landfill of communal waste "Kalenić", Serbia
  - Branko Business Center, adaptation, reconstruction and renovation, Belgrade, Serbia
  - Institute for Early Development and Inclusion Children, N. Bg, Serbia
  - Obrenovac Market, steel canopy, Obrenovac, Serbia

**2021-2022**

**Energoprojekt Urbanism and Architecture, Belgrade, Serbia**

▪ **Senior Civil Engineering Technician**

- Preparation of detailed structural project documentation, including formwork drawings, concrete reinforcement details, and BBS specifications. I utilized AutoCAD and ArmCAD- Professional software for reinforcement detailing. Additionally, I coordinated with various disciplines, including electrical, mechanical, and architectural teams.
  - Residential complex "KOSA KVART ", Residential Complex "KK" is formed in the form of two Cyrillic letters "P" which consists of 6 buildings in a row with separate entrances "BLOK 24 B" - lamellas B1 - B6 and "BLOK 24 A"-lamellas A1-A6, Belgrade, Serbia, (53.400m2)
  - Regional Industrial Technology Park- Reconstruction, extension and construction of a business facility, Krusevac, Serbia.

**2019-2020**

**dA - DIZAJN ARHITEKTURA Belgrade, Serbia**

▪ **Architectural Designer / CAD -Revit Designer Projects**

- Responsible for the daily preparation of architectural project documentation, including layouts, elevations, and sections. I coordinated activities with the Architectural Head Designer and the construction team and reviewed and monitored project documentation for all disciplines. Recommended minor adaptations and modifications to finalize working drawing sets. Used AutoCAD and Revit for architectural modeling. Attended all team meetings to address technical and project-related issues.
  - Blue Horizons, Mix Resort Hotel, Montenegro
  - Belgrade Waterfront P13 Hotel and Residence, Belgrade, Serbia, Architectural Design & BW is a modern urban settlement. BW P13 Hotel and Residence is part of this complex of buildings.
  - SMOKVA BAY- Hotel, Hotel and Residence, Montenegro.

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**2017-2019**

**POWER COMM, Belgrade, Serbia**

▪ **Electrical Designer/ CAD Designer Projects**

- Preparation of drawings for electrical projects for facilities and equipment for substations, including layouts, sections, and details and design and routing of multi-layer cables, featuring typical sections and cross-sections. Additionally, updates to the drawings based on design changes and feedback.
  - SRSBM Control building over all equipment & substation.
  - DWPS\_Earthing\_275kv GIS extension bay earthing & substation.
  - TAMN- Substation 132kv /33kv/11kv cable routing & substation.
  - TAMN- 132kv & 11kv & 33kv Cable support details & substation.
  - DWPS\_ Cable ladder and tray work (132kv GIS) & substation.
  - SRSGD\_ Cable ladder & tray and cables support details-substation.

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**2014-2015**

**ENERGOPROJECT ENTEL, Doha, Qatar**

▪ **Civil Engineering Technician / CAD Designer**

- Preparation of documentation, including formwork and concrete reinforcement drawings for various power facilities and BBS specifications.
- Coordination with electrical, mechanical, and architectural disciplines, as well as collaboration with project managers and design consultants to produce and modify drawings as needed.
- Design and modifications to various pipelines and supports, Dukhan Sub.
  - Terminal Extension Project - 33kv Substations design.
  - Epic for conversion of 11kv Substation To 33/1kv, Complex at HALUL
  - Substation design QNCC
  - Detailed design for CDD Pit construction at Station - Substation design.
- Worked on substation projects in the Middle East through each phase of implementation.

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**2001-2014**

**D.V. ENGINEERING, Belgrade, Serbia**

▪ **CO-OWNER & Civil Engineering Technician / CAD Designer**

- Organizational and managerial skills, enabling me to set priorities, manage time effectively, and coordinate tasks efficiently.
- Work, review and supervision of complete documentation for each phase of work, including as-built designs.
- Oversaw technical activities to ensure work standards and deadlines were maintained.
- Prepared detailed project documentation, including drawings for formwork and concrete reinforcement for various building construction projects.
  - Mortuary at the cemetery - Bezanija, Belgrade, Serbia - 8000 m2
  - Hotel Splendid, conference and SPA Resort, Montenegro 70000 m2
  - Aqua Water Park "AQUA CITY ", Bosnia and Herzegovina -12000 m2
  - Sport Hall Indjija, Serbia - 8000 m2
  - Museum "Leslend "Slankamen, Serbia - 2500 m2
  - Residential buildings-Sports center, Belgrade, Serbia - 10000m2
  - Residential - commercial buildings, Belgrade, Serbia - 25000 m2
  - Water tank 1000 V3- Podkuk, Tivat, Montenegro
  - Pumping station with water tank - Konarevo, Kraljevo, Serbia
  - Main design-Bridge over the River Breznica – Pljevlja, Serbia
  - Russia - Moskva - Bussiness Building -1500 m2
  - Russia - Irkutsk Hospital complex - 10000 m2
  - Public Administration Building, Tolmin-Slovenia - 4000 m2

**1989-2000                      Energoprojekt Urbanism and Architecture, Belgrade, Serbia**

▪ **Civil Engineering Technician / CAD Designer**

- Preparation of documentation for civil and structural design, focusing on formwork and concrete reinforcement for various building projects, including, high-rise, residential, commercial, sports, healthcare, and retail facilities.
- Using AutoCAD for complete design of structural projects - shop drawings.
  - Vietnam-Hanoi - Apartment Business Tower "West Lake International", High-Rise Building - 25000 m2
  - Chinese Embassy in New Belgrade, Serbia - 8000 m2
  - Sports Hall with Business Building, Igalo, Montenegro - 9000 m2
  - Russia - Volgograd- Krasnoarmeiska Bank -11000 m2
  - Russia - Volgograd - Business Building - Komiz - 2000 m2
  - Russia - Sochi - Multi-Purpose Hall - 5000 m2

**SPECIAL TRAINING AND EXPERIENCE**

- Auto CAD & Energoprojekt, 1995
- Revit & Architecture Modeling & One Advanced, 2018
- Arm CAD- Design of Reinforcement plans & NS Drafter, 2021
- AutoCAD Professional / AutoCAD 3D / Sketch Up / BIM Management: Careers / Managing CAD Standards / Managing BIM 360 & LinkedIn, 2021
- ALLPLAN & Baldini Studio, 2022
- ADVANCE STEEL & Udemy, 2023
- BIM Collaborate Pro & RCM, 2023
- LANGUAGES: Serbian, English

**EDUCATION**

- Civil Engineering Technician (1987) - School for the shipping and shipbuilding hydro-technical, Civil Engineering, Belgrade/Serbia.
- Completed professional training in Energoprojekt, Passed professional exam 1997, Civil Engineering Technician - Structural Design, Civil Engineering.
- **LinkedIn:** <https://www.linkedin.com/in/snezana-rafailovic-33616081>
- **Portfolio:** <https://www.flipsnack.com/snele69/portfolio-snezana-rafailovic.html>

-Recommendations and contacts are available on request-