

## GAZALA SUHAIL

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### PROFILE

Result-oriented Structural Engineer with extensive experience working in Underground Metro-Transit, Bridges, Railway and Hydro-Power infrastructure. Adept at performing finite element modeling (FEM), structural design, project management and coordination along with excellent time management and teamwork skills.

### EDUCATION

- Master of Science in Construction Management, 2017, Colorado State University, USA
- Bachelor of Technology in Civil Engineering, 2008, Aligarh Muslim University, India

### WORK EXPERIENCE

#### SMEC (Surbana Jurong Group), India

May 2018 – Present

##### Senior Structural Engineer (Bridges, Rail and Metro)

Project: DFCC CTP-11, India

- Structural design of railway line with major bridges, minor bridges, ROB, RUB, pedestrian, foot over bridge
- Design coordination with owner's representative and contractor, and getting approvals for structural design reports, general arrangement drawings and reinforcement drawings from Indian railway and project owner.

#### RIDER LEVETT BUCKNALL, USA

May 2017 – May 2018

##### Engineer, Project Controls

- Worked as owner's representative for cost optimization and prepared RFIs, work breakdown structure (WBC), reviewed change orders, estimated cost of structural concrete, masonry, steel/metal, road, sitework

#### COWI, India

April 2015 – August 2016

##### Structural Engineer (Team Leader)

Project: Doha Metro (Red Line-North), Qatar

- Led team of structural engineers and designers for the timely submission of structural design reports and construction drawings of underground metro station and other auxiliary structures
- Performed structural design and 3D modeling of underground metro station, and prepared uplift, static check reports of metro transit structures.
- Calculated loads including seismic load and calculated minimum reinforcement using CIRIA C660
- Supervised CAD/BIM/REVIT designers in the preparation of reinforcement and general arrangement drawings

#### SNC LAVALIN, India

October 2008 - April 2015

##### Structural Engineer (Deputy Manager)

Project: Delhi Metro (DMRC), India

- Prepared structural design reports and 3D models of underground metro station using STAAD along with calculation of loads for FEM analysis including earthquake loads, and performed uplift check,
- Posted on site for coordinated structural design work with the site team of client
- Supervised CAD designers in the preparation of reinforcement and general arrangement drawings

Project: Pare Hydro Electric Project (HEP), India

- Modeled, analyzed and designed powerhouse & head race tunnel (HRT) intake using STAAD after application of calculated loads including wind and earthquake
- Developed tunnel concrete lining design, tunnel portal design, retaining wall design and penstock lining design reports
- Performed stability analysis of powerhouse, HRT intake & retaining wall
- Supervised CAD designers in the preparation of construction drawings
- Attended meetings, discussed work progress, site and design issues with client, and performed site visits

### **Engineer, Civil & Hydraulic Design**

Project: Bhimkyong HEP, India

- Hydraulic design of barrage, desilting basin, surge shaft, plunge pool, HRT intake, HRT, pressure shaft, trench weir, barrage, desilting basin, forebay
- Performed surge analysis, head loss calculation and stability analysis of barrage and power house

### **SOFTWARES**

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- Proficient in FEM (finite element modeling) software STAAD and ROBOT, Microsoft Office, On-Screen Takeoff, AUTOCAD, ProjectWise
  - Familiar with RISA 3D, MicroStation, Bluebeam REVU, REVIT, ASTA PowerProject

### **CODES**

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- EUROCODE, INDIAN, AMERICAN, AASHTO

### **LINKEDIN PROFILE**

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<https://www.linkedin.com/in/gazala-suhail-53bb8915/>