

# NAWAZ ASLAM WANGDE

## MECHANICAL ENGINEER

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### PROFILE SUMMARY

Accomplished multi-disciplinary mechanical engineer with seven years of expertise in building services design. Capable of developing functional, safe, and energy-efficient designs for HVAC, plumbing, and fire protection systems in healthcare, military, residential, and commercial projects. Well-versed in coordinating complex, high-value, high-profile projects. Adaptable and quick learner with experience in customer relationship management, leadership, collaboration, and teamwork.

### AREAS OF EXPOSURE

- M&PF Design
- HAP
- Revit
- AutoCAD
- Navisworks
- Dynamo Revit
- RiB iTWO
- BIM 360
- MS Office

### WORK EXPERIENCE

#### NOV 2022 – PRESENT

#### Plumbing and Fire Fighting Engineer, Al Habshi Engineering Consultants Office - Kuwait

*Managed the design of plumbing and firefighting systems in Kuwait across diverse sectors, including healthcare, military, and refinery facilities.*

- Led the design of plumbing and firefighting systems, ensuring compliance with IPC, ASPE, ASHRAE, NFPA, UFC, and local codes and standards.
- Plumbing systems include cold and hot water, RO water, deionized water, sanitary and storm water drainage, and special drainage systems for radioactive, biohazard, and acid waste.
- Firefighting systems include wet sprinklers, standpipes, and clean agent fire suppression systems.
- Managed the design of irrigation systems, compressed air systems, and DG fuel system as per international and local codes and standards.
- Collaborated closely with architects and structural engineers to ensure seamless coordination of designs, meeting all specified design requirements.
- Led and managed a team of Revit and CAD technicians, providing timely guidance, addressing challenges, and ensuring the adherence to departmental Revit and CAD standards.
- Established departmental Revit standards to ensure the production of high-quality models and maintaining consistency and quality in project deliverables.
- Successfully established automated and standardized plumbing calculations across all projects, resulting in time savings and exact, error-free calculations, leading to overall project quality.

#### Projects:

- **Childrens Hospital, Kuwait** - A 19-story hospital with three basements, four podium floors, and 792 beds.
- **US Army Project, Kuwait** - A major military complex which included shooting ranges, workshops, army barracks, administrative and headquarters buildings, sports complex, dining facilities, medical clinics, and other utility buildings.
- **KNPC Fire Station & Clinic, Kuwait**
- **KOC Hospital, Kuwait**

**MAY 2019 – JULY 2022**

**Mechanical Engineer, BuroHappold Engineers India Private Limited - Mumbai, India**

*Led the complete delivery of mechanical and plumbing systems for residential and commercial projects, overseeing the entire project lifecycle from concept design to construction administration.*

**Systems Design:**

- Designed detailed mechanical, plumbing, and firefighting systems and ensured that the project work was completed to a high standard within agreed-upon deadlines and budget.
- Prepared HVAC heat load calculations, an air distribution system, and extract and ventilation systems in accordance with relevant codes and standards.
- Designed plumbing systems, estimation of domestic and grey water demand, sewerage generation, water supply & drainage system pipe sizing, plumbing system pressure profile, Storm water drainage, pump head calculations.
- Designed firefighting systems, estimation of fire water demand, system pressure profile, fire sprinkler & hydrant systems per NFPA.
- Equipment selections of A/C DX & VRF system, AHU'S, FCU'S, Fan, pumps, and other accessories.

**Coordination and Planning:**

- Collaborated in project planning meetings, coordinating mechanical, plumbing, firefighting system designs with structural and architecture teams, mitigate design conflicts, and coordinate delivery timelines.
- Utilized Revit and CAD to plan and manage design documentation, ensuring efficient communication and collaboration.

**Project Management:**

- Prepared detailed documentation such as BOQ, material take-off sheets, design reports, presentations, models, and drawings.
- Conducted onsite inspections to guarantee compliance with design and client requirements.
- Reviewed contractor technical submittals, shop drawings and ensuring adherence to design specifications, quality materials and standard installation procedure are followed.

**Team Leadership:**

- Supervised a team of graduate engineers and technicians, fostering a collaborative and efficient working environment.
- Represented BuroHappold at meetings with client, architects, and other professionals.

**Projects:**

**• Piramal Residential Project, Mumbai**

Managed M&PF project delivery of luxury high-rise residential project comprising of two residential towers and multi-level podium parking from concept design to the construction administration.

**• RCRC Theme Park, Saudi Arabia**

Managed M&PF project delivery of 11 Sq.m park consisting of hotels, Retail, F&B outlets, Souq village, exhibition center, car parks and toilet blocks from scheme design to the tender design.

**• Godrej Residential Project, Mumbai**

Managed M&PF project delivery of premium high-rise residential project comprising of nine residential towers, multi-level car parking and amenities from concept design to the detailed design.

NOVEMBER 2016 – MAY 2019

**BIM Engineer**, Tata Housing Development Company Limited- Mumbai, India

*Managed and executed Building Information Modelling (BIM) across various functions at Tata Housing, contributing to the advancement of project efficiency and standards.*

**BIM Modelling:**

- Developed detailed Revit Models for MEP and Structure, including the creation of both parametric and non-parametric Revit families.
- Managed the development of THDCL BIM Modelling standards, Workflows, Revit content, Project browser organizations & RFP and developed dynamo scripts for projects.

**BIM Platform Implementation:**

- Took a leadership role in implementing the BIM 360 platform, enhancing collaboration, and streamlining project management processes.

**Training and Coordination:**

- Conducted hands-on training sessions for users on Revit & iTWO, ensuring proficiency and adherence to established BIM practices.
- Coordinated efforts in enhancing MEP design, resulting in potential cost savings of Rs. 8.20 million.

**Achievement and Recognition:**

- Stage winner as a team member for the project "5D BIM - Disruption in Construction" at Tata Innovista, showcasing innovation and excellence.

**Projects:**

- **Tata Housing Residential Project, Mumbai & Kolkata**

Managed the 5D BIM process for Design, Planning, Budgeting, Contracts, and Execution, demonstrating expertise in leveraging BIM for comprehensive project management and execution.

## EDUCATIONAL QUALIFICATION

- **B.E in Mechanical** from University of Mumbai, Mumbai with First Class in 2015.
- **H.S.C**, Maharashtra State Board, Chiplun with First Class in 2011.
- **S.S.C**, Maharashtra State Board, Chiplun with First Class in 2009.

## TECHNICAL COURSES

- **Course in Project Management Professional**, Tata Housing, 2018
- **Certified Professional Course in MEP BIM Technologies**, XS CAD India, 2016
- **Certified Professional Course in Autodesk AutoCAD and Revit**, XS CAD India, 2016
- **PG Diploma in HVAC Systems Design per ASHRAE**, IPEBS, 2015
- **PG Diploma in Plumbing & Fire Fighting Systems Design per IPC/NFPA**, IPEBS, 2015

## PERSONAL DETAILS

Gender : Male

Date of Birth :21-12-1993

Passport No : N4224283

Expires : October 27, 2025

Visa Status : Article #18(Transferable)

Languages : English, Urdu, Hindi, and Marathi