**ASMA**

[**ASMA.366523@2freemail.com**](mailto:ASMA.366523@2freemail.com)

**FACADE STRUCTURAL ENGINEER**

**Career Objective;**

To be able to establish a productive relationship with a company that stands for professional growth providing me with a breadth of experience needed to excel in my field of work.

**Summary of Experience;**

* Has almost six years of experience as **structural /façade engineer**, working in large façade contracting firm in the Middle and was involved in large scale and high rise façade icon projects in UAE AND UK.
* Proficient in engineering and design of bespoke façade systems such as stick and unitized curtain walls, point-fixed structural glazing, structural glass fins/beams, tensioned-cable systems, skylights, canopies, cladding, glass balustrade etc.,
* Conversant in most of the internationally recognized European, American and Australian Standards used in the analysis of façade components coupled with advanced engineering approaches, Finite element analysis, and structural engineering utilizing Strand 7, Staad pro, SAP 2000,

SJ Mepla, Math CAD, Windows Glass Design, Auto CADD, Solid Works and various Anchor application software.

* Knowledge on wind load analysis and seismic provisions on building, calculations of façade systems and façade design using applicable international standards and engineering software.
* Proficient in technical report writing, Flexible, self motivated, career-oriented, hardworking, Trustworthy and eager to learn more.
* Two (2) years of experience in the field of **Civil Engineering Projects Planning management** right from development to delivery encompassing planning, monitoring and controlling in various phases of project lifecycle also Adopt project management tools and techniques like project planning & scheduling using project management tolls like Primavera 3.1, 5.0 & 6.0 version 8.3 and MS Project 2007 Professional. Overall planning and monitoring of resource, cost, material and machinery for various construction projects using project management tools.

**Professional Work Experience;**

**Façade Structural Engineer,** February 2016 to Present

FOLCRA BEACH INDUSTRIAL COMPANY L.L.C., ABU DHABI, UAE

Job Descriptions;

* Closely worked together with the technical design team to develop, design and engineer the best and economical solutions of all façade works.
* Engineering, Design and preparation of structural calculation report of different façade systems of various projects.
* Specifically, checked structural integrity of glass (Point-fixed, 4 sides supported, 3 sides supported), Mullions(Typical and corner),

Transoms, element connections, brackets and anchorages used or integrated in the façade system of the project.

* Analysis of steel members, Steel Frames and anchorages supporting the façade systems.
* Analysis of Aluminum members, Aluminum Frames, Aluminum Cladding Panel, Aluminum Composite Cladding and anchorages supporting the façade systems.
* Design and prepares structural report for complex glass structures, Doors (fixed, hinged , sliding and revolving-single and doubled leaf), Spider glazing, Balustrades, Windows, Handrails, Louvers, Cladding, Canopies and Sky lights etc.,
* Analysis of Wind Load on projects using applicable codes (e.g. BS6399, ASCE, and UBC), Thermal and acoustic analysis of façade.
* Performs steel structure analysis on various projects using analysis software and relevant design codes.
* Attends to queries of consultants regarding engineering issues and participates in clients’ project coordination meeting when necessary.
* Provides value engineering support to commercial department to come up with the most economical façade concept design of tendered projects without sacrificing the integrity of the facade
* To ensure all the engineering requirements of the curtain wall are achieved and calculations conducted are documented and stored.
* Liaise with the Technical Director that all necessary requirements for the curtain wall have been specified and approved.
* Confirmation of the adequacy of design and of material selection to ensure and verify that the right materials will be ordered and that the curtain wall design conforms and meets the clients building requirements and specifications.

Projects Handled;

* FOUNTAIN VIEWS DEVELOPMENT, DOWNTOWN DUBAI DEVELOPMENTI, UAE. (EMAAR PROPERTIES)
* FAIRMONT HOTEL, Abu Dhabi, UAE. (TAMOUGH 3AM PROPEETIES INVESTMENT CO.)
* SKY VIEWS, DUBAI, UAE. (EMAAR PROPERTIES)

**Façade Structural Engineer,** June 2014 to January 2016

REEM EMIRATES ALUMINUM L.L.C., ABU DHABI, UAE

Job Descriptions;

* Prepares structural calculation for all types of facade components stick or unitized curtain wall in compliance with the project specification and other applicable standards
* Design and prepares structural report for monorail system and cradle for building maintenance
* Design and prepares structural report for aluminum or steel brackets for the facades
* Design and prepares structural report for complex glass structures
* Design and prepares structural report for complex steel structures like canopy, tension rod facade system and steel trellis
* Liaise with the client, builder engineer, and architect to verify all the necessary requirements for the curtain wall design.
* Ensure all requirements of the façade design are achieved and that tests and calculations conducted are documented and stored

Projects Handled;

* + HYDRA AVENUE, ABU DHABI, UAE AL BARAKA BANKING GROUP (ABG – TOWER ,
  + SARAYA TOWER 1 &2, Abu Dhabi, UAE.
  + AL JAZEERA TOWER, Abu Dhabi, UAE.
  + DAMAC PHASE 1 VILLAS, Dubai, UAE.
  + CITY WALK PHASE 2, and CITY WALK HOTEL, Dubai, UAE
  + DUBAI TRADE CENTRE DISTRICT, Dubai, UAE
* DTCD IBIS HOTEL ,Dubai, UAE
* W HOTEL ,Dubai, UAE
* Seventh Heaven and Ashjar Livings, Dubai, UAE.
* WEST YAS ZONE, Abu Dhabi, UAE.
* VICEROY HOTEL RESORTS RESIDENCES, Palm Jumeirah, Dubai, UAE.
* MBA CROWNE PLAZA, UK

**Structural Engineer,** November 2011 to Jan 2014

BASHEER DESIGNS INC, Trichy, India.

Job Descriptions;

* Preparation of civil/structural engineering calculations & design concepts using governing codes, standards & engineering formulae
* Using computer-assisted engineering & design software like Auto CADD, STAAD Pro to design model & prepare engineering design documents
* Providing guidance and review the work of other Engineers & Designers
* Writing the scopes of work, studies, and specifications when required
* Providing input on projects team for Civil/Structural input and status
* Coordinating Civil/Structural technical work on the project
* Providing technical support on site during construction
* Organizing, draft, and coordinate technical documents
* Preparation of man-hour estimates for project proposals
* Managing a team of Designers and Draughts men for producing the required engineering deliverables and in terms of activity scheduling, estimation of man-hours, quality control and resources planning
* Having ability to explain the calculations to a customer and handle customer questions

**Planning Engineer,** July 2009 to September 2011

MILESTONE partnering perfection (In Technical Collaboration with FAR WALL), Hyderabad, India.)

Job Descriptions;

* Preparation of Baseline Schedule by using Primavera Project Planner
* Updating project planning tasks using Primavera including WBS, resources loading& cost allocation
* Responsible for preparing manpower histograms, cash flow and progress S-curves
* Developing and monitoring schedule logs for shop drawing submittals, subcontractor approval,
* Material approval & delivery
* Preparation of Daily Report, Weekly Report & Monthly Report
* Follow up the Site work as per Contract Specification & Scheduled Plan
* Preparation of Impacted Schedule due to delayed work and variations work
* Preparation of Extension of time Claim (EOT) for the same Project
* Tendering & Preparation of Conceptual Baseline schedule for Tendering Purpose

**Design Skills;**

* **Strands7** (Finite Element Analysis)
* Structural Analysis SAP2000,
* For Finite Element Structural Analysis **STAAD Pro2006** and STAAD foundation
* Structural glass Design **SJ MEPLA** and Windows Glass Design,
* For Structural report preparation **Math CAD**
* **PRIMAVERA 6.2**
* Project Planning Management Concept
* **Auto CAD**
* Solid Works Design Software (Finite Element Analysis)
* Anchor Design software’s- **Mungo, Hilti PROFIS Channel, MKT, Fischer Compu Fix, Jordhal expert** and **Halfen etc.,**

**IT Skills;**

* Could operate effectively with Microsoft office tools namely word, excel, power point, access.
* Have worked with various versions of Windows Operating system namely WinNT and Win 98, VISTA, MS-EXEL, MS-OFFICE.
* Have sound knowledge on Dos applications and programming language C and C++.
* Proficient with Microsoft Office Software and Operating System like Windows.

**Certification;**

* Completed **56 PDUs PPM** ()Certification Course from CADD CENTRE head office (Asia’s No1 PMI register Education Provider) Mylapore, Chennai, India.
* Having Diploma certified course of Project Planning Management using **Primavera6.2** at `CADD CENTRE Training Services, Mylapore, Chennai, India.()
* Having Diploma certified course of Structural Design Engineering using **STAAD/Pro** at CADD CENTRE Training Services, Mylapore, Chennai, India.
* Having a course completed Certificate for Civil CAD from CPLR Softtech Limited, India

**Education;**

* Bachelor of Civil Engineering (2005-2009) with FIRST CLASS, Anna University, India
* H.S.C., St Antony’s Girl’s Higher Secondary School, Tamil Nadu, year of passing 2005 with 86%
* S.S.L.C., Muslim High School , Tamil Nadu, year of passing 2003, with 82%

**Personal Background;**

Born on March, 1988 in India. Fluent in English and Tamil and Malayalam, hard working, goal‐oriented, and diligent.

**Personal Profile:**

* Gender Female
* Marital Status Married
* Nationality Indian
* Languages Known English, Tamil, Malayalam and Hindhi

**Other Qualifications;**

Holder of UAE Driving License.

**Reference;**

Available upon request.