

**MUHAMMAD ASHRAF RANA**

**Sr. Design Engineer/Checker**

**Email:**[wiwashrafrana772@gmail.com](mailto:wiwashrafrana772@gmail.com)

**Cell#: 0321-2528716**

**Location: Pakistan**

**Areas of Expertise**

Project Estimation, Project Layout planning, 3D Model Review

Production Task Leading & Quality Control Checking

AutoCAD, Tekla Structures, Revit Structures, ProSteel3D

**Years of Experience  
32+**

**Years of Experience with the Current Firm  
17+**

**Education**

Diploma of Associate Engineer (DAE)/1985/Mechanical Drafting & Designing/PBTE, Lahore

Certified AutoCAD course/2000/Petroman Development Center, Karachi

Certified AutoCAD course/2000/Karachi Shipyard Engineering Works, Karachi

**Relevant Project Experience**

***NorCal Structural, Inc.***

***December 2002 to-date***

I have over 32 years of experience in detailing of steel, reinforced / pre-stressed concrete buildings, bridges & industrial structures. I also have expertise in using Tekla Structures, Revit Structures, ProSteel 3D and AutoCAD for developing 3D BrIM / BIM models of steel, reinforced concrete and post-tensioned bridge structures and buildings.

Responsible for developing & of checking 3D Structural BrIM Models, Conflict identification & resolution, 3D Integrated Shop Drawings and 2D ISD Coordination Drawings in Tekla Structures, of the following projects:

* MT. Vernon Viaduct Bridge, CA
* Houston Ship Channel Bridge, Long Beach, CA – 2016 – In Construction
* Gerald Desmond Bridge Demolition, Long Beach, CA – 2016 – In progress
* San Francisco-Oakland Bay Bridge Cantilever Truss Structures Demolition, Oakland, CA
* SFOBB Cantilever Truss Eyebar Retrofit, San Francisco, CA
* San Francisco-Oakland Bay Bridge OTD Temporary Detour Structures, Oakland, CA
* SFOBB YBI TS1 Eastbound Structures, San Francisco, CA
* SFOBB SSD East Tie-In Roll-In/Roll-Out, San Francisco, CA
* SFOBB SAS E2 & T1 Footings, San Francisco, CA

Responsible for developing & checking of Detail shop drawings of the following projects:

* Richmond-San Rafael Seismic Retrofit, Richmond, CA
* Manhattan Bridge Rehabilitation, Manhattan, NY
* Williamsburg Bridge, New York, NY
* [LOS](http://www.norcalstructural.com/projects/imagesCantileverTruss.shtml) ANGELES Airport Tunnels :TPAX Passenger Tunnel, TUTL Utility Tunnel & TUTL-E.

**Years of Experience with the Karachi shipyard and engineering works Ltd**

**14+**

Responsible for developing & checking of Detail shop drawings of the following projects:

* 17000 Ton Bulk Carrier Ships for China
* Tug ships for Karachi Port Trust
* Tug ships for Port Qasim Authority,
* Marine Boats for Pakistan Maritime Security Agency
* Boats & Ships for Pakistan National Shipping Corporation
* Boats & floating docks for Pakistan Navy

Responsible for developing & checking of Detail shop drawings of the following projects:

* Steel structure buildings & plant sheds for Hubco Power Plant
* Steel structure buildings & plant sheds for Lalpir Power Plant
* Steel structure buildings & plant sheds for Al-Abbas Sugar Mills
* Steel structure buildings & plant sheds for Dadabhoy cement
* Steel structure buildings & plant sheds for Lucky cement
* Steel structure buildings & plant sheds for Ponier cement