

Philip Jay Ocampo

Civil Engineer / Structural Designer



EXPERIENCE SUMMARY:

Have almost four (4) years of experience in combined Architectural, Industrial, Commercial, Power Plant & Petrochemical Design, Engineering Concept and Construction. Well experienced in Architectural Design and Drafting using **AutoCAD software** and manual drafting/design and rendering; and an extensive experience in petrochemical, power plant, oil and gas refineries project using **PDS, Microstation, X-steel, Smart Plant Review & Navisworks Roamer**. With knowledge also of design of reinforced concrete and steel structures using **STAAD & ETABS 9.2 software** or relative programs including Hands-On-Calculations. The scope of which include Chemical & Petrochemical Plant structures such as storage house, substation bldg, control bldg, equipment foundations, and pipe racks. Well-versed in Quantity Surveying & Site Inspection for industrial & petrochemical plant facilities. Proven to meet aggressive deadlines and manage to multiple priorities independently or in a team environment. Highly motivated, goal oriented and efficient engineer.

WORKING EXPERIENCE:

MITSUBISHI HEAVY INDUSTRIES TECHNICAL SERVICES CORP.

25TH Floor BPI Buendia Center, Sen. Gil Puyat Ave., Makati City, Philippines
(July 2005 to present)

Job Description:

Prepares Structural detailed drawings both steel and concrete structures. Prepared preliminary plans, elevations, sections & details using Microstation J. Creates steel and concrete 3D models using Frameworks Plus v7.1 or Tekla Structures (X-steel) and checks any piping or electrical clashing using Smart Plant Review or Navisworks Roamer. Prepares material take-off, estimates and work involves civil drawings. Coordinates with other affected disciplines to some changes or design revision by the engineers and with the vendor data supplied. Design of concrete and steel structures using Staad Pro software.

Project Involvement:

Brunei Methanol Project – Sg. Liang Industrial Park, Brunei Darussalam (April to November 2007):

Civil/Structural Designer. Modeled the plant structures and pipe racks using Tekla Structures (X-steel) then exporting them to PDS using the Frameworks Plus model. Prepared a preliminary design of pipe racks using Staad Pro software for approval of the client during engineering stage. Prepared material quantity estimates of concrete and steel bidding. Prepared detailed drawing layouts of civil and structural works using AutoCAD software which includes also revision of drawings and as-built drawings.

**Sohar Fertilizer Project – Sohar, Oman
(February to March 2006):**

Civil Engineer. Prepared drawings to be issued for construction at site. Prepared material quantity estimates for final issue of the company for its progress billing as construction of the project went on.

**AR-RAZI Plant 5 Methanol Project – Jubail Industrial Park, Saudi Arabia
(July to September 2005):**

Junior Civil Engineer. Prepared standard drawings to be used for engineering of the projects. Assists Senior Engineers in the design of standard connections for steel structures. Prepared material quantity estimates for concrete and steel structures as well.

WORK ASSIGNMENT ABROAD:

MITSUBISHI HEAVY INDUSTRIES, LTD. (JAPAN)

27th Floor, Mitsubishi Juko Yokohama Building
3-1 Minato-Mirai 3-chome, Nishi-ku, Yokohama, Japan 220-8401

Project Involvement:

**Singapore Parallel Train (Exxon Mobil Chemicals – Asia Pacific) – Jurong Island,
Singapore
(December 2007 to present):**

Civil/Structural Designer / 3D Coordinator. Work involved are checking of structural and concrete drawings, such as pipe racks, miscellaneous pipe and electrical support steel and foundations, platforms, and walkways. Preparation of Structure and pipe rack models by importing Staad file to X-steel model. Checking of design drawings that includes items for civil works. Preparation of 2D drawings according to the design data which will be issued for approval. Preparation of detailed drawings for civil works which will be sent to subcontracting company for modeling into PDS. Checking of the 3D model using Smart Plant Review and Navisworks Roamer if design drawings were followed and for possible clashing. Prepare revision layout for scope of Civil works that clashed through pipes and other items. Prepare reports for Project Keyperson regarding status of 3D model as per the subcontracting company's progress. Design of structures and piperacks using Staad Pro software.

**Sohar Fertilizer Project – Sohar, Oman
(January to February 2006):**

Civil Engineer. Prepared 2D drawings including final revisions to be made which will be sent to site for construction. Prepared final material quantity estimates for use to progress billing at site. Checking of design of piperacks and structures using Staad Pro software.

**AR-RAZI Plant 5 Methanol Project – Jubail Industrial Park, Saudi Arabia
(September 2005 to February 2006):**

Civil Designer. Prepared steel structure model such as structures, piperacks, operation stages, platforms, etc. using PDS Frameworks Plus. Modeled equipment foundations, ductbanks, drainages, paving, water ditches, buildings, steel structure accessories such as gratings, checkered plate floor, handrails, staircases, etc. using PDS equipment modeling. Prepared material quantity estimates for steel and concrete items. Prepared 2D drawings for new and revised layouts for issue of approval and construction. Prepared detailed standards of connections for steel as basis for design.

**SOHAR INTERNATIONAL UREA AND CHEMICAL INDUSTRIES (CLIENT);
MITSUBISHI HEAVY INDUSTRIES, LTD. (MAIN CONTRACTOR)**

Sohar Industrial Port Complex, Sohar, Oman

**Sohar Fertilizer Project (Site work) – Sohar, Oman
(April to December 2006):**

Civil Building Supervisor. Work involved as an in-charge for all buildings (substations, control building, operator's rooms and generator house). Manage the subcontractor's workforce for construction of all building. Inspected every details of construction if followed according to designed drawings. Monitored progress of construction as per schedule of turnover to other discipline. Checked all material proposal submitted by the subcontractor if it passed the approved specification as per clients request. Supervised all works including the structural and architectural matters of the buildings.

OTHER INFORMATIONS:

Industry Experience: Oil and Gas Refineries, Chemical and Industrial Plants, and Commercial Building Foundations.

Skills: Microstation J, AutoCAD 2000~2007, Staad Pro, ETABS 9.2, PDS-Frameworks Plus, Tekla Structures (X-steel), Smart Plant Review, Navisworks Roamer and Manual drafting/design and Rendering.

Other Skills: Microsoft Word 1997/2003, Microsoft Excel 1997/2003, Microsoft PowerPoint 1997/2003 and Internet Literate.

Trainings: MHI Technical Services, Phil. - In-house training on Structural Designer, Microstation J, PDS Frameworks Plus, Smart Plant Review, Tekla Structures (X-steel).

EDUCATIONAL BACKGROUND:

College: **Mapua Institute of Technology**
(Bachelor of Science in Civil Engineering)
Intramuros, Manila
SY 1998-2003

PROFESSIONAL LICENSE:

Professional Regulation Commission
Manila, Philippines
Professional Board of Civil Engineering 2003 (Passed)
Reg. # 0097570

PERSONAL DATA:

Date of Birth: November 7, 1981
Place of Birth: Batangas, Philippines
Nationality: Filipino
Marital Status: Married
Religion: Catholic