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HARVEY SOTTO SALENGA

OVERALL PROFILE

More than nine (11) years of engineering experience in both basic and detailed design. Involved in various successful projects in structural, mechanical, and Petrochemical industries with knowledge and skill in Exterior and Interior structural/Architectural, mechanical and equipment plan, General Arrangement Drawing, Plot Plan, and Loading data. Experienced in using Plant Design System (PDS), Smart Plant 3D (SP3D), and Plant Design Management System (PDMS), 3D modeling tools in Equipment, Structures, Mechanical, and Electrical Drawing Plan. Also well-versed in 2D/3D MicroStation, SP3D, E3D, SPPID, 2D/3D and AutoCAD, Plant 3D. Knowledge also on basic, SketchUp, SmartSketch, Revit, and using Smart Plant Review (SPR) and Navisworks as a viewer. Also skilled in using Bluebeam REVU, Photoshop and Microsoft office.

CAREER OBJECTIVES

Secure a responsible career opportunity to fully utilize my training and skills, while making a significant contribution to the success of an esteemed engineering company that provides an open environment with many opportunities for continuous growth.

EXPERIENCE

GHD(Manila)

(Sept 2022 –up to present)

Position:

Assistant Documentation

- Road, Water, Sewer Drainage design with Mechanical equipment (Australian Standard) drafter
- Producing 3D drawings and detailed arrangements
- Liaising with project managers on design and scope requirements
- Plan mechanical engineering/design tasks and verify the completeness of designs, Plant 3d models, and documentation from the synergy

- P&ID Drafting and annotate using Autocad and P3D software
- Design components or portions of systems and modifies existing designs to develop or improve them.
- 3D modeling of piping equipment and Autocad.

Shore360

(May 2022 –August 2022)

Position:

Senior Draftsman

Projects Involved:

HDE Engineering Design Professionals (Australian Standard)

- Detailed design of both Structural and Mechanical equipment (Australian Standard)
- Producing Fabrication drawings and detailed arrangements
- Liaising with project managers on design and scope requirements
- Budget and time estimating
- Plan mechanical engineering/design tasks and verify the completeness of designs, Inventor models, and documentation from the vault
- Design components or portions of systems and modifies existing designs to develop or improve them.
- Work using point cloud surveys
- 3D modeling of piping equipment and structures using Inventor and Autocad.
- P&ID Drafting and annotate using Autocad from sketch
- Drafting for electrical plan residential and commercial building

CHIYODA PHILIPPINES CORPORATION

(January 3, 2020 –May, 2022)

Projects Involved:

- GPX Project, USA; Sept. 2019 – Present

Tasks:

- Enforce proper use of tools such as 2D and 3D software used in modeling and drafting iso drawings.
- Coordination with 3D Admin Group for troubleshooting and 3D modeling management.

- Ensures effective communication with and among co-workers (CAD operators, designers, engineers, and manager) To obtain project information and ensure drawings are accurate and complete.
- Assist in the development of standards, procedures, and training for the drafting group.
- Provide comprehensive system support, machine troubleshooting, preventative maintenance, and training for co-workers.
- Plan mechanical engineering/design tasks and verify the completeness of designs, Inventor models, and documentation.
- Develop drawings for LNG projects that meet current design standards.
- Assist in project delivery and/or take the lead in drafting for existing and new projects.
- Oversee 3D modeling, rapid prototyping, and CAD design.
- Design components or portions of systems and modifies existing designs to develop or improve them.
- Perform FEED 3D modeling in PDMS, including building of equipment, preliminary structures, and layout modeling of lines for submittal to Piping Engineering for stress review.
- Make complete detail design modeling of lines for extraction of isometrics for IFC.
- Identify tie-ins in the field and assist in development of tie-in list and packages for approval.
- Interact with internal and external personnel on piping and inter-discipline issues.

CHIYODA PHILIPPINES CORPORATION

(September 3, 2012 –December 18, 2020)

Position:

LEAD CAD OPERATOR/3D Modeler

Projects Involved:

- NFE Project, Qatar; Jan. 2020 - present
- GYO Project, USA; Mar. 2018 – Feb. 2019 (**deployed to Yokohama, Japan HQ*)
- RGTF Project, Singapore & Malaysia; Dec. 2016 – Nov. 2017
- Cameron LNG Project, USA; June 2014 – Nov. 2016

Tasks:

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- Route piping based on Piping & Instrumentation Diagram, Utility Header Diagram, Process Flow Diagram, Equipment Data sheet, Engineering Design Memos and technical specification in accordance with piping standards and codes.
 - Modelling of Equipment and finalizing the Nozzle orientation.
 - Prepare piping deliverables such as piping isometric drawings, equipment and civil information drawing such as nozzle orientation drawing and loading data drawings.
 - Prepare flex packages for piping flexibility analysis.
 - 3D modeling of piping equipment and structures using PDS, PDMS, and SP3D.
 - Regularly checks the model using NAVIS viewer and performs adjustment accordingly.
 - Produce Bill of Materials
 - Develop work plans, budgets, and schedules for basic designer tasks based on input and direction from supervisor in designated discipline.
 - Gather information, make studies, perform calculation, and prepare original rough layouts and sketches to present design proposals.
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Position:

CAD Drafter

Projects Involved:

- LCP, LNG Project, Canada; Nov. 2014 – Dec. 2014
- GPX (Golden Pass Export) Project, Canada; July 2014 – Dec. 2014
- CLP-Cameron Project, Canada & SFL (Scarborough Floating) LNG, Australia; Aug. 2014 – Mar. 2015

Tasks:

- Prepare Process Flow Diagram, Utility Flow Diagram, and Material Selection Diagram layout drawings.
 - P&ID Drafting and annotate using SPPID (Smart Plant P&ID).
 - Use AutoCAD to provide production and detail part drawing.
 - develop and manage your P&IDs with a focus on the plant asset rather than the document representation
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Position:

CAD Operator/3D Modeler

Project Involved:

- IGL Project, Ichtys Onshore LNG Facilities, Australia; Feb. 2013 – May 2014
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Tasks:

- Perform designs according to engineering codes and standards.
- Perform FEED 3D modeling in PDMS, including building of equipment, preliminary structures, and layout modeling of lines for submittal to Piping Engineering for stress review.
- Make complete detail design modeling of lines for extraction of isometrics for IFC.
- Identify tie-ins in the field and assist in development of tie-in list and packages for approval.
- Interact with internal and external personnel on piping and inter-discipline issues.

Position:

CAD Operator

Project Involved:

- TMP2 Project (Tokuyama Malaysia Project 2), Malaysia; June 2012 – Jan. 2013

Tasks:

- Prepare GA Drawing, (General Arrangement drawing) hand over and documentation control.
- Mastery of AutoCAD to provide production and detail part drawings.
- Prepare GA annotation and SPS Drawing (Special Pipe Support) production/ extraction.

CHINO LAMIRA CONSTRUCTION

April 2012 – September 2012

Position: Designer/CAD Drafter

Tasks:

- Draft 2D and 3D models using AutoCAD and SketchUp, then render using V-Ray for realistic design.
- Perform structural drawings from written descriptions, sketches, and verbal instruction (both interior and exterior design) in either wood or steel design concept.
- Prepare construction documents for cost estimates, bidding, and technical reports.

- Coordinate with contractors in compliance to set schedules, materials, and budgets.
- Analyze building codes, local laws, space planning, and site requirements for architectural design compliance.
- Coordinate structural, electrical, and mechanical engineering matters.
- Drafted plans for existing buildings and structures, based on preliminary concepts, sketches, engineering calculations, specification sheets, and other data.
- Ensure quality control on set procedures and instructions according to design specifications and quantity of materials.
- Prepare presentation drawings in AutoCAD.
- Prepare shop drawings of a plan, section, and elevation from tender drawings.
- Prepare As-Built drawings.
- Preparation of computer-aided drawings related to structural construction and outfitting of new building projects as detailed in the client's specification.
- Coordination of architectural drawings with structural and service drawings.
- Prepare Detail 2D and 3D Drawings of:
 - Swimming Pool detail
 - Bath and Kitchen detail
 - Staircase and Baluster detail
 - Roof Finishing detail
 - Reception and Bath Counter detail
 - Details of different parts of sections and elevation
- Preparation of power distribution and lighting layouts.
- Preparation of single-line diagrams.
- Preparation of routing layout, earthing layout, DB schedules, and layouts.
- Preparation of wiring diagrams and cable schedules.
- Preparation of instrumentation hook-up drawings, loop drawings, and I/O schedules.
- Preparation of all types of standard drawings.
- Preparation of material submittals.
- Preparation of Bill of Materials.

SEMINARS AND TRAININGS

- Construction Site Safety Awareness Program
- Interpreting P&ID: Typical Arrangement
- Interpreting P&ID: Control Safety System
- Process- Technical Transfer Program (Dividing Wall Column)
- SP3D Training
- Manual Drafting for Piping Isometric to Plan Conversion
- Representing of Piping Components & Dimensioning

- PDMS Technical Job Note Lecture
- IGL Project Technical Lecture of Engineering Memo
- Piping Enhancement Presentation
- SolidWorks Training Course
- Revit Training (mechanical and structural)
- PDMS Software Training
- TMP2 Project Technical Lecture of Engineering Memo
- Technical Drafting
- Introduction to Fire Protection Engineering Lecture
- P&ID / Isometric Drawing / GA Line Tracing Training
- ISO 9001:2008 Quality Management System Awareness Orientation
- Pipe Support Lecture
- Plot Plan Lecture
- Isometric Drawing Check-system Wise Lecture
- Line Index Lecture
- Structural Code & Standards Lecture
- Piping Engineering Procedure
- 3D PDS Training
- SP3D Training
- E3D software training
- 2D MicroStation Training
- ISO 27001:2005 Information Security Management System Awareness Orientation
- AutoCAD Enhancement Training Program
- Microsoft Word/ Excel/ PowerPoint / Adobe PDF

EDUCATIONAL BACKGROUND

Tertiary	Bataan Peninsula State University Balanga, Bataan Major in Drafting Technology April 2012
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Secondary	Jose Rizal Institute Orani, Bataan March 2010
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Primary	Mambog Elementary School Hermosa, Bataan March 2006
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PERSONAL DATA

Date of Birth: July 21, 1994
Place of Birth: Dinalupihan, Bataan
Age: 28
Gender: Male
Civil Status: Single
Citizenship: Filipino
Height: 5'9
Weight: 73kg.
Religion: Iglesia ni Cristo (Church of Christ)
Languages: Tagalog, English

REFERENCES

Mr. Vincent Banang
Piping Lead Engineer
Manila, Philippines

Mr. Raul Fernandez
Piping Lead Engineer
Zambales, Philippines