

Summary

Orlando is an experienced Mechanical Engineer in the field of design, installation, and commissioning of industrial plant and commercial building. Trained in construction Management and constructing various mechanical services and worked closely with designers, managers, and engineers from conception, implementation, and commissioning.

Total of 16 years proven reputation in completing industrial plants and facility retrofits/expansion, commercial, and specialty projects which 13 years spend in project management/ site supervision including mechanical system installation and commissioning; and 2 years in design.



Qualifications

Education

Bachelor of Science in Mechanical Engineering - 1995 from Mapua Institute of Technology, Intramuros Manila

Registrations / Associations /Certifications

Registered Mechanical Engineer in the Philippines
Member of Philippine Society of Mechanical Engineers
Project Managers Development Program (PMDP)
Certification, ASU

Information

Years of Experience

18+ Years

Date of Birth

18 October 1973

Nationality

Filipino

Languages

English and Tagalog

Current Position – Mustang HDP

Project Site Mechanical Engineer

Experience

Mustang Al-Hejailan Dar PI – Saudi Arabia (July 2013 to Present)

Project Site Mechanical Engineer

Responsible for the interpretation of all mechanical technical documents issued by Engineering Design Office related to specific system ensuring exact execution and maintaining technical quality of the work carried out by Contractor for all issued construction documents. Works also include review and approval of all technical documents including but not limited to Technical Queries (TQ), Request for Inspection (RFI), Technical Submittals, Shop Drawings, Material Approval Sheets (MAS), Method Statements, Technical Manuals etc. Review and Approval of Testing and Commissioning plans before execution of work and witnessing of Testing and commissioning activities and issuance of final approval. Responsible in assisting lead planner and Quantity Surveyor in carrying out duties in measuring progress and clarification of mechanical technical details for the purpose of estimating.

Project handled:

King Faisal Specialist Hospital and Research Centre Expansion Project – Riyadh KSA, composed of;

1. 40 x 400TR Chillers, 9 x 2.5 MVA Generators and Boiler Equipments; Electrical Substation, Mechanical Pump Rooms, Laundry Facility and Offices for Staff located at KFSH facility in Riyadh Saudi Arabia.
2. The building is equipped with wet sprinkler system, fire detection and alarm system, Novec FM200 Fire Suppression system connected to BMS.
3. Centralized overhead and underground chilled, steam and condensate piping, O₂ (Oxygen), Irrigation and Sewerage system 600m in length connected in underground tunnel which serves as distribution pipeline for the new hospital and adjacent expansion buildings.

MAXIM Philippines Operating Corp. - Philippines (from Sept.2010 to July 2013)

Project Manager

Responsible in design coordination, construction site supervision and start-up/commissioning of HVAC, Mechanical Service Utilities which includes Compress Dry Air, Vacuum, Liquid Nitrogen/Gas System, Public Health (Domestic Water), and Fire Fighting system. Responsible in providing design constructability concepts; project administration works such as prebid conference, vendor selection, procurement, tender review and contract awards. In charge in mechanical facilities system inspection (QA/QC) in conformance to design plans and specifications prior to system start-up. Facilitate and lead weekly general coordination meeting with the other trades to be aware of their system and space requirement. Scrutinize architectural plan and structural plans requirement as basis of design analysis, computations, layouts, equipment locations. Responsible for project documentation, cost control monitoring, consultant/vendor payment certification, design and construction coordination/management.

Projects handled:

- **MPOC Facility Expansion 22.5ksqm** – Concept/Preliminary/Detail Design, Site Supervision and Construction Management, Mechanical System Start-Up/Commissioning of Three (3) Storey Semiconductor facility and One(1) Central Utility Plant located at Gateway Business Park, Cavite. The building is equipped with wet sprinkler system, fire cabinets and fire detection/alarm system, Compress Dry Air/Vacuum and N₂ Pipelines, rain water recovery tank

for non-potable requirement, office, and 86ksf manufacturing cleanroom at Class 100K environment. Centralized overhead and underground chilled and condenser water (using spiral BI piping- max.pipe size is 1000mmø spiral BI pipe for chilled/condenser water), vacuum system and compressed dry air.

- **MPOC Bridge Office/Warehouse Expansion** – Concept/Preliminary/Detail Design of 1000 sqmtrs Office Space and 350sqmtrs. Warehouse. Gateway Business Park Cavite.
- **Maxim Office Fit-Out 1.1K sqm** - Concept/Preliminary/Detail Design of Cold Shell space to full build Office facility ~ 120 seating capacity. Fort Bonifacio Global City Taguig

Jones Lang Lasalle Leechiu – Philippines (from Sept. 2009 to Sept.2010)

Asst. Project Manager- Mechanical Installation and Start-Up/Commissioning Engineer

Responsible for installation, and commissioning of HVAC, fire fighting, and plumbing work for external site wide clients and building works. Review and approved material approval sheets, answer technical queries, review of contractor shop drawings, method statements, and quality plan. Tender review and recommendations including progress billing review and Attend technical and coordination meetings and prepare monthly accomplishment reports to clients.

Responsible for project documentation, cost control monitoring, consultant/vendor payment certification, design and construction coordination/management

Projects handled:

- **Convergys Office Fit-Out** – Composed of Four(4) floor Call Center Office facility, Network Server Precision A/C, Fire Pro Pre-Action System and HVAC MEP (Centralized System), 10,000 sq.mtrs. San Lazaro, Manila
- **Teletech GBS Office Fit-Out-** Composed of Two(2) floor Call Center Office facility, Network Server Precision A/C, Fire Pro Pre-Action System and HVAC MEP works thru VRF System. 5,000 sq.mtrs., Pasong Tamo Makati
- **Standard Chartered Bank BPO Office Fit-Out.** Composed of One (1) floor Call Center Office facility, Network Server Precision A/C, Fire Pro FM200 System and HVAC MEP works thru VRF System. Quezon Ave, Quezon City.

Intel Philippines Manufacturing Corp. - Philippines (from October 1999 to August 2009)

Project Manager- Mechanical Installation and Start-Up/Commissioning Engineer

Responsible in mechanical trade coordination works for constructability of HVAC, Public Health (Domestic Water and Specialty Gases), Fire Fighting system. Managed facilitation, utility hook-ups of manufacturing tools and equipments.

Act as Mechanical facilities start-up and commissioning engineer for basebuild facility equipments such as HVAC and Specialty Gas Equipments. Actively headed the review and design of facilities installation for all manufacturing equipment and spearheaded its installation for the whole Philippine Site. Attend weekly general coordination meeting with the other trades to be aware of their system and space requirement. Scrutinize architectural plan and trade plans requirement as basis of design analysis, computations, layouts, equipment locations.

Project handled:

- **CV2 32ksf Warehouse Conversion to Class 10K Manufacturing.** Cavite Philippines. A 6 month \$10.5M Basebuild and facility retrofits converting Warehouse space to a manufacturing cleanroom environment. Responsible in providing Mechanical Preliminary and Detailed design, equipment selection, engineering facilities start-up and commissioning of 2000TR HVAC cooling system comprising of Chillers/ Air Handlers/Cooling Towers/Pumps and Electrical system.

- **Q2'03 Progressive Build and CV2 Facilities Upgrade.** Responsible in providing complete mechanical engineering design package of, equipment selection, engineering drawings and delivery as per facility upgrade requirement and schedule. Cavite Philippines
- **Manufacturing Tool Installation and De-Installation** – Production Equipment Tool Facilitation, Transfer and hook-up of 500+ manufacturing equipments. Makati and Cavite Philippines

Manila Kyowa Inc. - Philippines (Oct. 1998 to Oct. 1999)

Mechanical Engineer

Responsible for mechanical design preparation, checking, construction coordination and implementations. Prepare project cost estimates, scope of works, material take-off and bid proposal preparation. Review and recommend commissioning methodology.

Project handled:

- **PhilRice Cooling Water Irrigation Project. Nueva Ecija-** Turnkey project for the start-up of 250sqm experimental chilled water recirculating irrigation system facility complete with Electrical Generator back-up, heat exchanger coils and temperature sensors.

TRANS-ASIA Philippines - Philippines (April 1997 to October 2009)

MEP Coordinator (Site Based, Intel Philippines Makati)

Responsible in providing HVAC design package including design calculations for building retrofits, equipment selection, engineering drawings and delivery as per clients' requirement and schedule. Draft ducting, chilled water, and direct expansion piping layout and coordinate lay out on CAD section.

Coordinate with client progress status updates. Prepare daily, weekly, and monthly accomplishment reports.

Project handled:

- **Intel Philippines Manufacturing Mechanical Tool Fit-Out and Basebuild Works.** Bangkal Makati, Philippines. 5 storey Industrial Semiconductor manufacturing facility.

RCIC Construction - Philippines (May 1996 to April 1997)

MEP Coordinator/Engineer (Site Based)

Responsible in drafting/providing engineering shop drawings as per actual site conditions and items in conflict with construction drawings. Monitor equipment and material delivery as per clients' requirement and schedule. Review and prepare quotations for change orders subject for approval of owner representative. Prepare material take-off and estimates for mechanical works. Testing and Commissioning of Waterfalls System.

Project handled:

- **Peninsula Manila WaterFalls Project** – a 12 month US \$ 2M contract Waterfalls project. System includes 1-60hp and 2-30hp recirculating water pumps, 1-15hp water treatment system.