**CURRICULUM VITAE**

**Eng’r. Roderico**

[**Roderico.337144@2freemail.com**](mailto:Roderico.337144@2freemail.com)

**Mechanical Engineer / MEP Design Engineer**

*Certified Mechanical Engineer Board Passer, PRC*

*Registered Mechanical Engineer*

Performance driven professional, with more than 13 years of experience.

* 10 years in designing and coordinating Mechanical, Electrical, Plumbing,

And Fire Fighting for Commercial, High Rise Building, Villa, Schools,

Airports, Condominiums, and Hospitals.

* 2+ years in designing Mold and Tooling for Semiconductor Companies.
* 1+ years in various local construction projects, (Projects and Casual Basis),
* Design and Estimates, Planning, Scheduling, Site Inspections,

Monitoring and Coordinating.

**KEY SKILLS AND STRENGHTS**

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## TECHNICAL

* Expertise in 3D/ 2D Design Drawings Using MEP AutoCAD 2009, Navis Work Management 2010, Alibre Cad Professional, Sprut Cam, Revit MEP 2016.
* Proven ability in Design Documentation using MsOffice (Word, Excel, PowerPoint), Windows 98/2000/XP, Open Source Linux, Computer Hardware Troubleshooting.
* Air-conditioning Load Calculation using Cad Software such as Hourly Analysis Program (HAP), Elite Software (CHVAC), and ASHRAE recommended Manual Computations.
* Competence in Mechanical Codes and Standards such as ASHRAE, SMACNA, ASME, ANSI, IPC, ASHRAE, NFPA90A/B Etc.
* Air Duct and Pipe System Design using E20-II Duct and Pipe Design Programs and manual computation base on the requirements of the consultant and owners.
* Working knowledge of manufacturing, process, maintenance and construction methods

**PEOPLE AND TEAMWORK**

* Enjoys working in a team environment where co-operation and collaboration are the norms. Values diversity and treats the team with dignity and respect.

**CUSTOMER SERVICE**

* Provides value added service to the customers and internal estimating by ensuring that their expectations are not only met, but exceeded.

**June 1997 - November 2001**

**Bachelor of Science in Mechanical Engineering**

Technological Institute of the Philippines,

Quiapo, Manila, Philippines

**June 1993 - March 1997**

**Secondary Education**

Pasig Catholic College,

Pasig City, Philippines

**Member of Philippine Society of Mechanical Engineers**



**PERSONAL DETAILS**

Nationality : Filipino

Date of Birth : 08 Oct 1980

Place of Birth : Manila, Phil.

Gender : Male

Marital Status : Married

Religion : Catholic

Height : 5’ 3”

Weight : 60 Kgs

Languages : English, Filipino

**EDUCATIONAL QUALIFICATION**

**Mechanical Engineer (MEP) 26 NOV. 2016 to Present**

ALYSJ Joint Venture (Qatar)

QIRP – Gold Line Underground

P.O.Box 24375, Doha – Qatar

Telephone No: +974 4410 9400 / +974 4410 9500

**Duties and Responsibilities**

* Reviews the approved detailed design and making coordination of MEP disciplines with BIM modelers.
* In daily basis leads a team of BIM modelers in coordination with BIM coordinators for the production of shop drawings.
* Organize the engineering/design works so that work is carried out to the required specifications, incorporating all the FCRs, ICDs and the up-to-date inputs.
* Ensure the models created by BIM modelers were done according to specifications/standards like NFPA, IPC, QCS etc.
* Organizing and resolving problems/changes with MEP Design Engineering.
* Leading the shop drawing coordination of MEP /Architectural and others.
* Verification and coordination of all construction deliverables prepared by other departments such as Method statement/ITP, Material Submittals.
* Preparation of BOQ, equipment schedules and technical data for Equipment Selection from the Procurement Department.
* Preparation of report for incompliances of site installations with shop drawings and report to QC for issuance of NCR’s.

**PROFESSIONAL EXPERIENCE**

**Doha, State of Qatar Metro Gold Line Project**

Nov 2016 - Present Client: **Qatar Rail**

**Singapore Echelon Alexandra Condominium**

Mar 2014 - Oct 2016 Client: **FreshView Developments Pte., Ltd.**

**Singapore Asian Square Tower 2**

Oct 2011 – Feb 2014Client**: Asia Square Tower Pte., Ltd.**

**Marina One Towers**

Client**: MS Commercial & Residential Pte., Ltd.**

**Doha, State of Qatar New Doha Int’l. Airport Passenger Terminal**

Oct 2011 – Feb 2014 Client**: Qatar Airways**

**Qatar Education City Convention Center**

Client: **Qatar Foundation**

**Kingdom of Saudi Arabia King Abdullah University State**

Nov 2006– Feb 2009 **King Abdullah Medical Center**

**SBA Villa**

**Ayhar Villa Villa Khozama**

**PROJECTS**

**SEMINARS AND TRAININGS**

Autodesk Revit MEP 2016 Fundamentals (CIM Technology)

Building & Construction Supervisor Safety Course (Ever Safe Singapore)

Computer Aided Design of HVAC (Crescent Technology)

AutoCAD 2006 Level I and II, Advance 2D & 3D with Rendering (CIM Technology)

Alibre Design Professional 3D Cad/Cam (M.D.C.)

AutoCad 2002 Level I and II, Advance 2D & 3D (MicroCad Technology)

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| **Mechanical & Electrical (M&E) Design Coordinator 03 Mar. 2014 to 29 Oct 2016**  Daewoo Engineering & Construction Co.,Ltd  204 Bukit Timah Road, #05-00Boon Liew Building, Singapore 229863  **Duties and Responsibilities**   * To supervise and ensure that work is in accordance with the contract requirements. * Prepare / Coordinate on method statement, drawings, materials, samples, work progress and other relevant documents for M&E related works and authority requirements. * Coordinate with sub-contractors and consultant on preparing shop drawings for constructions and M&E installations in complying with standards. * Review Coordinated Shop Drawings (CSD) and prepare structural wall and slab openings. * Coordinate and execute design layouts with different trades such as Structural, Architectural, Electrical and Plumbing. * Site supervision, monitoring, Inspections, Testing and Commissioning, and handing over of M&E items. |
| **Mechanical Engineer (M&E) 03 Oct. 2011 to 28 Feb. 2014**  Hyundai Engineering & Construction Co.,Ltd  9 Temasek Boulevard, #27-02 Suntec Tower 2, Singapore 038989    **Duties and Responsibilities**   * To supervise and ensure that work is in accordance with the contract requirements. * Prepare / Coordinate on method statement, drawings, materials, samples, work progress and other relevant documents for M&E related works * Coordinate with sub-contractors and consultant on preparing shop drawings for constructions and M&E installations. * Expedite submission of M&E drawings, material samples & shop drawing to client * Review Coordinated Shop Drawings (CSD) and prepare structural wall and slab openings. * Coordinate and execute design layouts with different trades such as Structural, Architectural, Electrical and Plumbing. * Site supervision, monitoring, Inspections, Testing and Commissioning for M&E items. |
| **MEP Design Engineer 09 Feb. 2009 to 30 July 2011**  Ekin Project Construction Contract Trade and Industry Inc.  PO Box 23486, Doha, State of Qatar  **Duties and Responsibilities**   * Provide 3D Design Drafting and Lay-out of plans and sections for ducts, HVAC equipment, Plumbing, and electrical, using MEP CAD software. * Confer and support site engineers and other personnel to resolve problems, and provide technical information, * Prepare material take off and Bill of Quantity (BOQ) for HVAC and plumbing equipment. * Coordinate and execute design layouts with other trades such as Structural, Architectural, Electrical and Plumbing. * Research, design, and evaluate mechanical products, equipment, systems and processes to meet requirements, applying knowledge of engineering principles. |
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| **Sr. Technician / Sr. Designer (HVAC) 29 Nov. 2006 To 01 Feb. 2009**  Saudi Oger Limited  Head Office, PO Box 1449  Riyadh 11431 KSA  **Duties and Responsibilities**   * Prepare and Coordinate shop drawings, preliminary sketches, schedule and diagrams in all discipline of engineering works such as Structural, Architectural, HVAC and Plumbing services. * Responsible for design, detailed engineering works and drawing preparation for consultant approval purposes for various commercial and industrial projects. * Cooling load calculations using ClimaWin Version 3.2 Software and standards based on consultant reference details. * Equipment Selection using Climanet Software and Trane Official Product Selection System (TOPSS). Designating the type of equipment to be use in the room space. * Prepare material take off and Bill of Quantity (BOQ) for HVAC and plumbing equipment.   **Mold And Tool Design Engineer                                                05 Sep. 2004 to 24 Nov. 2006**  Amkor Technology Philippines (ATP-ANAM)  119 North Science Avenue,SEPZ , Laguna Technopark,  Binan Laguna, Philippines 4024    **Duties and Responsibilities**     * Conducts analytical studies on engineering proposals to develop design for products, such as equipment, mold tool, associated and subsystems components, and structures. * Uses computer-assisted engineering software and equipment. Analyzes data to determine feasibility of product proposal. Analyzes product or equipment specifications and performance requirements to determine designs, which can be produced by existing manufacturing or processing facilities and methods. Analyzes engineering proposals, process requirements, and related technical data pertaining to industrial machinery and equipment design. * Produce product system layout and detailed drawings and schematics. * Directs and coordinates manufacturing or building of prototype product or system..  Accomplishments  * Designed and developed various high volume Conventional, MGP, Auto-Chase Mold tool and equipment for the Semi-Conductor. (Ball Attach equipment, Tooling Nest, Deculler & Degater, etc…) * Produced concise technical designs and documentation of Mechanical Equipment based from data and/or Customer Specifications. |
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| **Engineer I / AutoCAD Operator                                                                  Apr. 2004 - Sep. 2004**  **Duties and Responsibilities**   * Handles design drawings for the expansion of glass furnace * Mechanical & Structural CAD Design Drawing * Prepares report on the projects handled * Design & Estimate Mechanical Utilities and Equipment * Trains and orients new OJT staff. Provides monitoring and status reports.     **Accomplishment**:   * AGP Glass furnace building. * Fire protection pump and piping installation * Cooling system for glass furnace * Demolition and Relocation of new installed pipes and ducts |

**Mechanical Project Engineer Nov 2003 to Feb 2004**

Carnation And Engineering Services

(PROJECT BASIS)

* Estimate of Materials needed to Repair and Re-design a Bumper Oven and Spray Booth, Compress Air Lines, and Air Handling Units

**Mechanical Cadet Engineer July 2003 to Oct 2003**

Climate Industrial Corporation

(Mechanical Design Trainee)

* Design & Estimate Mechanical Utilities And Equipment, Mechanical Drafting

**Project & Site Engineer Jan 2003 to Mar 2003**

AMREAF Metals Incorporated

(PROJECT BASIS)

* Material Planning and scheduling for the installation of elevator cladding, promenade wall, Railings, and wall dividers. Site inspection and supervision.

**Assistant Project Engineer April 2002 to Nov 2002**

ARLO Aluminum Company

(PROJECT BASIS)

* Scheduling and monitoring for the installation of aluminum and glass windows and doors. Lead for the rectifications and modification of installed aluminum products.

*I hereby that above mentioned are true and correct to the best of my knowledge.*

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*I hereby that above mentioned are true and correct to the best of my knowledge.*

Roderico M. de Ala