



## **CURRICULUM VITAE**

**ENGR. ROGELIO H. PABUSTAN**

**Registered Mechanical Engineer / Professional Mechanical Engineer**

**Present Job Position: Sr. Mechanical Design Engineer (Building Services)**

**Length of Experience: 17 years – Design Services; 4 years – Construction; 3 years – Maintenance**

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### **PERSONAL DATA:**

Nickname	Roger
Date of Birth	July 20, 1963
Status:	Married
Nationality	Filipino / (OFW Mechanical Engineer)
Present Address	Al Falah District, Riyadh, KSA
E-mail Address	roger_moda2000@yahoo.com
Mobile No.	+966530552141 (KSA)
Passport No.	XX4747479

### **EDUCATION:**

College	Bachelor of Science in Mechanical Engineering Technological Institute of the Philippines October 1986
Secondary	Florentino Torres High School March 1980
Primary	Timoteo Paez Elementary School Mach 1976

### **PROFESSIONAL LICENSE ISSUED:**

Board in Mechanical Engineering  
September 1987 – RME; October 2013 - PME

### **GENERAL EXPERTISE:**

Design with background experience in ACAD; Have expertise to use mechanical engineering software for cooling load (E20-ii), hydraulic calculation (Elite, OMNI

CADD), manufacturer's electronic catalogue selection and Microsoft Word/Excel etc; Installation, testing and commissioning of HVAC, Fire Protection and Plumbing System for high/medium rise building such as office/commercial/hospital/airport and semi-conductor projects. Have knowledge/skills in quantity/cost estimates, preparation of bid documents, design brief and specification in various mechanical aspects of building services. Have familiar with building codes and other standard such as NFPA, ASHRAE, SMACNA, Uniform Plumbing Code, HTM etc.

## **EMPLOYMENT BACKGROUND / JOB EXPERIENCE**

**August 2011 – Present (K.S.A)**

**MINISTRY OF DEFENSE AND AVIATION AND GENERAL INSPECTORATE  
MEDICAL SERVICES DIRECTORATE OF ARMED FORCES**

Riyadh, Kingdom of Saudi Arabia

**Sr. Mechanical Engineer (Mechanical Design Section)**

### **Duties and Responsibilities:**

- Have generally responsible for all military hospital design project and ocular site inspection during construction and commissioning.
- Prepare a load calculation, concept design, detailed and final drawings for piping system network such as water supply, sewer/drainage, medical gas/hyperbaric, fire fighting, steam, chilled/hot water, ductworks and HVAC equipment selection.
- Assist with Mechanical Head for the preparation of project documentation from design stage until a proper turn-over of the project to end-user.
- Check and monitor the work of CADD Operator for quality control and assurance of all drawings to be presented to Ministry Project Head.

**August 2010 – February 2011**

**Anel Electrical Projects Contracting & Trading Co.**

Doha, Qatar

**Sr. Mechanical Design Engineer (Design Group)**

### **Duties and Responsibilities:**

- Provide shop drawings/as built drawings, hydraulic calculations and technical submittals in Fire Protection (Pre-Action/Wet Type) Sprinkler System for the construction of new airport facilities.
- Supervise, monitor the schedule of submission and check the work of CAD operator for proper improvement of shop drawings to be submitted to Engineering Consultant.
- Coordinate with other discipline regarding the builder's work and reflected ceiling plan to be provided before construction.

**November 2009 – May 2010**

**Parsons Brinkerhoff PTE. LTD. (Singapore)**

Level-5, 300 Beach Road, The Concourse Office, Singapore

**ACMV Technical Reviewer (MEP-2 Design Group)**

**Duties and Responsibilities:**

- Check and evaluates the ACMV (Air Conditioning & Mechanical Ventilation System) design prior for the approval by the Project Head.
- Provide technical reports and comments based on the evaluated design composition–layout, schematic, diagram, details and equipment schedule.
- Review also the design calculation/analysis based on the Singapore codes and other standard adaptable for medical hospital project.
- Perform quality control and assurance of all drawings to be submitted to client.

**April 2008 – September 2009 (Phils.)**

**HYDER CONSULTING MIDDLE EAST LIMITED**

**(Manila Regional Operating Headquarters)**

Level-9, Tower-2, The Enterprise Center

6766 Ayala Avenue cor. Paseo de Roxas, Makati City

**Sr. Fire Protection Engineer (Fire Protection Design Group)**

**Duties and Responsibilities:**

- Responsible to produce the conceptual and detailed design layout of fire suppression system that basically required for high rise building such as wet sprinkler, pre-action, foam & FM-200 suppression system.
- Provide design criteria and specification based on the standard requirement by NFPA and Qatar civil defense for high rise and commercial building.
- To check and review all design calculation and drawings to be done by junior engineers and CAD operator for quality assurance and control.
- To coordinate other trades regarding the space and utility requirements during preliminary and final design stage and directly reporting to discipline leader with regards the schedules and the status of design.

**September 2006 – March 2008 (Phils.)**

**TCGI ENGINEERS**

6<sup>th</sup> floor Jaka II Bldg., 150 Legaspi St., Legaspi Village, Makati City

**Sr. Mechanical Engineer (Mechanical Design Group)**

**Duties and Responsibilities:**

- As being Sr. Mechanical Design Engineer to assist the head of design group in various semi-conductors and high-rise building mechanical projects (HVAC, Fire Protection and Piping System).

- Supervise and monitor the work of mechanical designers/CADD operator to ensure that all design drawings and design calculation are in proper documentation in accordance of ISO.
- Review and evaluate contractor's submittals and shop/as-built drawings prior for approval by the Mechanical Head.
- Help design group to provide conceptual design, design analysis/criteria and layout in effective way prior for the start of detailed design.
- Prepare for the design review of plans and specification submitted by the other engineering consultant.
- Provide site inspection to check, evaluate and under study the existing mechanical facilities and as-built drawing as a reference guide to make a proper design strategy.
- Prepare technical specification and other technical documentation concerning with various mechanical projects.

**April 2005 – April 2006 (K.S.A)**

**DALLAH TRANS ARABIA CO. LTD. – ARAMCO PROJECT**

Dammam, Kingdom of Saudi Arabia

**Electro-Mechanical HVAC Engineer (Project Management Team)**

**Duties and Responsibilities:**

- Generally responsible to monitor and check the workmanship of Maintenance Contractor as per ARAMCO standard specification and procedure.
- Perform ocular inspection by checking the condition of existing HVAC equipment and the system that will be subjected for repair, replacement and/or adjustment based the outcome of evaluation.
- Prepare detailed scope of works, material take-off and drawings for modification or re-design of HVAC system if required.

**March 2002 – January 2005 (K.S.A)**

**MINISTRY OF DEFENSE AND AVIATION AND GENERAL INSPECTORATE**

**MEDICAL SERVICES DIRECTORATE OF ARMED FORCES**

Riyadh, Kingdom of Saudi Arabia

**Mechanical Engineer (Mechanical Design Section)**

**Duties and Responsibilities:**

- Have generally responsible for all military hospital design project and ocular site inspection during construction and commissioning.
- Prepare a conceptual design, detailed design and drawings for piping network such as water supply, sewer/drainage, medical gas, fire fighting, controls and HVAC including proper sequence of operation which adaptable to the project.
- Responsible also for the preparation of specification, bill of quantities and calculation based on hospital standard HTM-2022 and other mechanical U.S standard/code applicable for hospital facilities such as ASHRAE, SMACNA, NFPA, UPC, ASTM and manufacturer's catalogue as reference guide.

- Review and evaluates contractor's material, equipment submittals and shop drawings if conformed to specification and designed drawings for HVAC, Fire Fighting, Plumbing, Medical Gas Piping System and Water Treatment Plant for Dialysis.
- Coordinate with other trade regarding the required electrical load and space requirements for equipment to be considered during design stage.

**February 1995 – Dec. 2001(Phil.)**

**TRANS-ASIA (PHILIPPINES), INC**

4<sup>th</sup> Flr. Pilgrim Bldg., 111 Aguirre St., Legaspi Village, Makati City

**Sr. Mechanical Design Engineer (Mechanical Design Section)**

**Duties and Responsibilities:**

- Directly to report with Mechanical Head to discuss effectively the status of the on-going design project.
- Make a review the preliminary calculation, layout, estimates, bid of quantities and specification of all piping/ducting design and equipment selection for HVAC, Fire Protection and Plumbing System.
- Supervise Jr. Designer to discuss effectively the conceptual design and design parameter to be used as per client requirements or as per applicable standard/code such as ASHRAE, SMACNA, UPC, ASTM, NFPA, UMC, PSME and manufacturer's catalogue as reference guide.
- Have extensive experience in in-house retrofitting design works at assembly areas and clean room facilities from semi-conductor firm – Intel-Cavite.
- Prepare and monitor the schedule of design progress by the subordinates.
- Perform field investigation in support of mechanical engineering function; coordinate projects with other technical disciplines, customers and construction personnel.

**Mechanical Site Engineer (Construction Management Group)**

**Duties and Responsibilities:**

- Ensure that the installation of mechanical works conforms to the mechanical layouts as shown in the plans. Observe in detail all the works in progress.
- Renders close physical inspection, execution of the project installation of equipment and materials by the Contractor.
- Evaluates quantity take-off and estimate of the mechanical components of the project.
- Prepare weekly coordination meeting to discuss the important issues concerned in mechanical works.
- Monitor the weekly schedule of activity and reporting directly to Resident Manager to submit the status of progress report.
- Provides technical support and assists in the negotiation of component cost(s) between the contractor and the client

- Check the materials and workmanship. Report any deviation or seemed contrary to the plans and specification as it indicates against any accepted engineering standards.
- Interest of the client in terms of quality, economy and time would be foremost

**Mechanical Design Engineer (Mechanical Design Section)**

**Duties and Responsibilities:**

- In-charge for the preparation of calculation, drawing layout, estimates, and bid of quantities and specification of all piping/ducting design and equipment selection for HVAC including pressurization and smoke evacuation for high-rise building, Fire Protection and Plumbing System.
- Mechanical design requirements for building and industrial piping services includes chilled/process cooling water, refrigerant, sprinkler, potable/non-potable water drainage/sewer water, fuel, air and gas system.
- Supervise CAD operator and reviews their work for accuracy and completeness before to issue for bidding/construction.
- Perform research of existing record and as-built drawings for existing mechanical utilities.
- Duties also include the evaluation of contractor’s material submittal and shop drawing for construction
- Attend office seminar/workshop, which related to design works to be adopted for the in-coming and on-going project.
- Prepares sites inspection report in coordination with construction management group to oversee and evaluate the on-going construction if conforms to the design.

**OTHER PREVIOUS JOB EXPERIENCE**

ROMAGO Inc. 1993-1995	Mechanical Project Engineer for project implementation and execution (HVAC/Fire Protection)
Ever Ample Textile Mfg. 1989-1992	Junior Maintenance Engineer for textile operation and maintenance (Spinning Section)
Andrada Construction Inc. 1986-1988	Junior Mechanical Engineer for preparation of estimate, preparation of material submittals & shop drawings.

**LIST OF MECHANICAL DESIGN PROJECTS UNDERTAKEN**

1. Design of 750TR Cooling Capacity HVAC for the Construction of Medical Center– Gizan, KSA
2. Design of 1570 Kw (150 BHP) Rated Capacity, 1-Duty/1-Stand-By Capacity Diesel Fired Steam Boiler in Laundry Building - Dhahran, K.S.A.



3. Design of Medical Gas Piping and Irrigation System for the Construction of Prince Sultan Cardiac Center – Riyadh, K.S.A.
4. Design of Wet Type Sprinkler System for the Construction of C-Block Armed Forces Hospital – Jeddah, K.S.A.
5. Design of Mechanical System (HVAC, Fire Protection, Plumbing System) for the Construction of Prince Sultan Dialysis Center – Djibouti, Africa
6. Design of HVAC & Plumbing System for the Construction of Kidney Center - Gizan, K.S.A
7. Design HVAC and Plumbing System for the Construction of Dialysis Center - Dhahran Al Janoub, K.S.A.
8. Design of HVAC System for the Expansion of Armed Forces Hospital – Qassim, K.S.A.
9. Design of HVAC System for the Construction of Doctor's Accommodation & Auditorium - Wadi Dawasir, K.S.A
10. Upgrading of 100 Cubic Meter Water Treatment Plant – Al Kharj, K.S.A

**CHARACTER REFERENCES:**

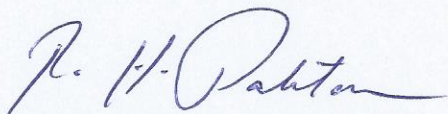
ENGR. JULIUS D. DELA TORRE (PME) – ARAMCO/ROMAGO  
PSME CRSA 2012 President

ENGR. ROWELL G. SOMIDO (PME) – KING FAISAL HOSPITAL/MODA  
PSME CRSA 2014 President

ENGR. FLAVIO V. KHAN (PME) – MODA – MECH'L HEAD SECTION  
PSME CRSA Life Member

ENGR. RAMY E. PUDADERA (PME) – PSME CRSA 2008 President

*I hereby certify that the above information is true and correct to the best of my knowledge.*

  
**ROGELIO H. PABUSTAN**  
Professional Mechanical Engineer