JULIUS VON V. BACALANDO

AGE: 34

PRESENT ADDRESS: Lot 7 Sec. 59, Goroa St., Gordons, Port Moresby, Papua New Guinea

EMAIL: juliusvonbacalando@gmail.com

CONTACT NUMBER: (+675) 8272 9622

EXPERIENCE:

I. **Workshop Supervisor** of Port Moresby Electrical Limited from January 18, 2024 to present.

- Carry-out preventive maintenance, troubleshooting, repair and overhauling of diesel generators of different brands such as Cummins, Caterpillar, FG Wilson, Kholer Kubota, Hyundai, Foton and Perkins.
  - I. Cummins Engine model: QST30-G4, QSX15-G8, NTAA835-G7, 4B3.9-G2, NTA855-G6, S3.8G7, KTA38-G2B, 4BTA3.9-G2, 4BTAA3.3-G1, NTA855-G, 6BT5.9-G2
  - II. Caterpillar Engine Model: 3406C, D4.4, C7.1
  - III. Perkins: DTA530E, U620119L, PK51588, AA50497, YD51130, RJ51158, 2500 SERIES, YD51265, DK51531, YD51332, 403D-15, DJ32015
- Completing preventive maintenance and repairs on generators or components at the customer site.
- Engaging customers, preparing maintenance service contracts, prepare quotations, parts requisition and preventive maintenance schedules.
- Prepare service reports, technical documentations, inspection reports, warranty claims evaluations and other requires documents.
- Engine Overhauling and Rebuilding.
- Carry-out maintenance of company fleet vehicles and equipment such as Toyota Hilux pick-up trucks, Fuso Trailer Truck, Hyundai H100, Nissan Patrol, Toyota Land Cruiser, Forklifts, scissor lifts, Telescopic Manlifts, High pressure pumps, and various power tools.
- Conduct technical orientation and trainings.

II. **Operation Supervisor** of Therma Power Visayas Inc. from March 21, 2022 to December 30, 2023.

- Responsible for the overall technical and administrative supervision of plant operations in accordance with Company policies, and procedures and standards.
- Ensures the strict implementation of prescribed operational policies, standards and procedures as well as compliance with all regulatory requirements.
- Monitors plant performance by reviewing daily activity reports and ensures that any deviation is addressed, corrective/preventive maintenance actions are identified and implemented.
- Ensures timely execution of minor and major preventive maintenance programs for all equipment and machines
- Ensures and execute proper implementation of Permit to Work system in accordance to the Safety policy.
- Supervise Control Room Engineer and Engine Room Operator.
- Prepares and efficiently implements annual shift work schedule to ensure manpower availability for plant operation.
- Recommends acceptance or rejection of delivered fuel and lube oil based on the results of the analysis. Implements the required adjustments or actions based on analysis.
- When present at the plant, acts as “Incident Commander” in the execution of the Emergency Response Plan of the plant.
- Recommends the annual budget for the operations and maintenance of the plant.
- Coordinates with contractors regarding rehabilitation of equipment.

III. **Mechanical Maintenance Supervisor** of Therma Power Visayas Inc. from March 06, 2020 to March 21, 2022.

- Responsible for maintenance and upkeep of 6 units 7.4MW SEMT Pielstick Diesel Engines and all its auxiliary equipment, ensuring that proper maintenance are implemented according to operations and maintenance manual, and based on industry’s best standard practices.
- Established preventive and condition-based maintenance schedules based on manufacturer’s recommendations.
- Plans, projects and initiates timely procurement of spare parts and materials needed for Corrective Maintenance and Preventive Maintenance activities to ensure continuous operation and minimized downtime.

- Supervise the mechanical specialist to properly execute maintenance activities.
- Evaluate and monitor main engine and auxiliary equipment parameters to ensure efficient and reliable operation.
- Carried-out trouble shooting and Root Cause Analysis on major equipment failures.
- Prepare and submit maintenance reports.
- Facilitate on design, planning, and implementations of project developments that helps improve or contribute to the efficiency on plant's operation.
- Executes the proper implementation of PTW in accordance to the Safety policy
- Generates Work orders from Maximo and designates activities (mechanical) to Team Members.
- Inspects and verifies all mechanical maintenance work done to the generating units, auxiliary (pumps, separators, boilers) and general plant equipment (cranes, air conditioning units, waste transfer equipment, moving, towing, ventilation, firefighting equipment) facilities of the plant.
- Monitors the efficiency of the main engine to ensure its reliability
- During overhaul and troubleshooting, carries out inspection in the main engine as the need arises, e.g. piston, cylinder conditions.

IV. Field Office Supervisor of MHI Engine System Philippines Inc. Cebu Field office from Oct. 2016 to Mar. 2020.

Responsibility:

- Supervised and team lead Cebu based Engineers and staff. Organized its monthly schedule, monitor and evaluates its output and performance, direct the business operation of the field office towards achieving the goals and objectives of the company.
- Facilitates contract deals for preventive maintenance agreements of Visayas and Mindanao costumers.
- Trouble shooting and repair of diesel engines.
- Prepare and approve parts replacement.
- Prepare and approve service quotations.
- Recommend proper maintenance schedule and plan to ensure equipment's reliability and upkeeping.
- Prepare Technical Report for warranty claims.

Projects:

1. **Equipment:** Standby Diesel Generator (2 Units)
   Maker: Mitsubishi
   Generator Model: MGS2500B
   Engine Model: S16R-PTAA2-S
   Scope of Work: Engine Rebuild (replacement rubber components, measurement of wearing parts such as cylinder liners bore, crankshaft pin journal diameter, cylinder liner bore & etc., replacement of connecting Rod Bearings, Replacement of Piston Rings, water pump reconditioning, turbo-charger reconditioning, top overhauling)
   Date: December 2017
   Location: J-Park Island Resort (Lapu-Lapu City, Cebu)

2. **Equipment:** Standby Diesel Generator (1 Unit)
   Maker: Mitsubishi
   Generator Model: MGS0900B
   Engine Model: S12A2-PTAA2-S
   Scope of Work: Engine Rebuild (Replacement of Piston, Cylinder liner, valve, valve seat, main bearings, connecting rod bearing, piston rings, & cam bushings; replacement rubber components, measurement of wearing parts such as cylinder liners bore, crankshaft pin journal diameter, cylinder liner bore & etc. water pump reconditioning, turbo-charger reconditioning, top overhauling)
   Alternator Reconditioning (Rewinding of exciter rotor & Stator, steam washing, re-varnishing, replacement of bearings)
   Date: Feb 2018
   Location: Taiyo Yuden (Lapu-lapu City, Cebu)

3. **Equipment:** Standby Diesel Generator (1 Unit)
   Maker: Mitsubishi
   Generator Model: MGS1500B
   Engine Model: S16R-PTA-S
   Scope of Work: Engine Rebuild (replacement rubber components, measurement of wearing parts such as cylinder liners bore, crankshaft pin journal diameter, cylinder liner bore & etc., replacement of connecting Rod Bearings, Replacement of Main Bearing, Replacement of Piston Rings, water pump reconditioning, turbo-charger reconditioning, top overhauling)
   Date: May 2018
   Location: Lexmark (Cebu City, Cebu)

4. **Equipment:** Continuous Diesel Generator (2 Units)
   Maker: Mitsubishi
   Generator Model: MGS1200C
   Engine Model: S12R-PTA-S
   Scope of Work: Engine Rebuild (Replacement of Cylinder liner, valve, valve seat, valve guide, main bearings, connecting rod bearing, piston rings, & cam bushings; replacement rubber components, measurement of wearing parts such as cylinder liners bore, crankshaft pin journal diameter, cylinder liner bore & etc. water pump reconditioning, turbo-charger reconditioning, top overhauling)
   Date: Jan. 2019
   Location: DANECO (Island Garden City of Samal, Davao Del Norte)

V. **Mechanical Service Engineer** for Diesel Generator at MHI Engine System Philippines Inc. from September 2015 to October 2016.

Responsibilities:

- Provide Engineering and after sales support services to Mitsubishi generators costumers.
- Trouble shooting and repair of Mitsubishi Diesel Generator Set.
- Prepare parts list replacement, cost estimate and quotations.
- Facilitates the design, installation, and commissioning of Mitsubishi Generators. Ensuring that standard specifications and quality of installation for costumer's satisfaction are guaranteed.
- Evaluate the equipment's reliability and prepare proper preventive maintenance scheduling.
- Prepare Technical Report for Warranty Claims

PROJECTS:

1. **Equipment:** Standby Generator (2 Unit)
   Maker: Mitsubishi
   Generator Model: MGS0450
   Engine Model: S6A3-PTA
   Scope of Work: Engine Rebuilding (replacement rubber components, measurement of wearing parts such as cylinder liners bore, crankshaft pin journal diameter, cylinder liner bore & etc., replacement of connecting Rod Bearings, Replacement of Piston Rings, water pump reconditioning, turbo-charger reconditioning, top overhauling)
   Date: November 2015
   Location: Mactan Cebu International Airport Terminal 1 (Lapu-Lapu City Cebu)

2. **Equipment:** Generator (1 Unit)
   Maker: Airman Generator
   Generator Model: SDG300S
   Engine Model: S6B-PTA
   Scope of Work: Engine Overhauling (Engine Thorough inspection due to water contamination of lubrication oil)
   Date: April 2016
   Location: Cebu Logitem (Lapu-Lapu City, Cebu)

VI. **Mechanical Project Engineer** at Philippine Phosphate Fertilizer Corporation from August 2014 to September 2015.

- **Projects:**
  - Facilitate the design, preparation of Bill of Materials, providing construction guideline and monitoring construction progress for replacements/rehabilitation of 16", 10" and 4" 200 meters liquid ammonia pipelines of Ammonia Storage Complex of Philippine Phosphate Fertilizer Corp.
  - Facilitate the mechanical design for the additional two 25 MTPD CFB coal fired boiler of PHILPHOS.
  - Design and build the fuel handling facility of the two boilers.
  - Design and build the flue gas scrubbing system for one 25 MTPD CFB coal fired boiler.
  - Design and construct the High Pressure Steam lines from Boilers to Turbine Generators.
  - Design and construct the Machine Foundations for its Mechanical Equipments.

- Piping designs (pipe layouts, piping ISO and fabrication drawing) for external pipe connections.
    - Design a 150KW induce draft fan for boiler exhaust.
    - Design a screw conveyor for boiler coal feeder.
- Design, estimate and facilitate the construction of 11 MLD river water intake facility with two 75 KW submersible sewage pump and equipped with a self- sustained backwash system for Metro Kalibo Water District (MKWD) water treatment facility.
- Design and estimate the proposed 6MLD bulk water treatment facility for the Municipality of Esperanza Agusan Del Sur.
- Design ang Estimate the Proposed 350 KW Odiongan mini hydro power plant at Odiongan Gingoog Misamis Oriental
    - Used AUTOCAD and SOLID WORKS.
- Expert on pipe design, experiences on piping designs: making piping ISO, pipe layout, spool drawings, and designing pipe supports; making flow and pipe stress analysis using both manual and through Pipe Flow Expert, Water Cad, Caesar II 5.0 and SOLIDWORKS; and lastly, experiences in making Bill of Materials and Cost Estimate.
- I also design some structures, tanks and vessels with the help of STAAD Pro. V8i for stress Simulation.
- I have also experiences on designing machine parts such as shafts, sprockets, pulleys, chains, belts, bearings, power screws and others. I used SOLIDWORKS for stress simulation.

VII. Management Trainee/ Maintenance Engineer (General Utilities, Boiler and Sea Water Intake Facility) at Philippine Phosphate Fertilizer Corporation, Isabel Leyte, Philippines from September 2013 to August 2014.

- **Facilities/Equipments maintained:**
    - Two 25 MTPD coal fired boiler
    - Four 150 KW positive displacement piston-type air compressors
    - Utility water storage and distribution facility
    - Bunker oil storage and distribution facility
    - Water Demineralization plant
    - Four 2 MW centrifugal vertical mounted sea water pump
    - Three electrolytic cells for hypochlorite generation for sea water chlorination

VIII. Hull/Structural Engineer at Keppel Batangas Shipyard Inc., Batangas, Philippines from November 2011 to July 13,2013.

SPECIAL SKILLS:

- Diesel Engine Overhauling, trouble shooting and repair.
- Turbo Charger repair and Reconditioning.
- Water Pump repair and reconditioning.
- Generator Operations, Maintenance, trouble shooting and repair.
- Alternator Rewinding and Reconditioning (Stamford, Leroy Somer, Taiyo Electric and Kato Engineering)
- Operation, maintenance and troubleshooting of synchronizing panel.
- Design and installation of Generator Set.
- Welding and welding inspection
- Machine installation and alignment
- Shaft alignment using dial and laser gage
- Knows how to use precision measuring instruments such as Vernier Caliper, Micrometer Caliper, Bore Gauge, Dial Gauge, Deflection Gauge.

- Pipe fitting
- Servicing of Pumps, Compressors, Fans and Blowers.
- Valve servicing and repacking.
- Shafting design

ACADEMIC ACHIEVEMENTS:

- Graduated as CUM LAUDE
- 89.5 GPA in Philippine Mechanical Engineer Licensure Examination
- Consistent Honor Student CIT University
- Best in Automotive Mechanics (NIT-LHS Batch 2006)

AFFILIATIONS:

- Member: Philippine Society of Mechanical Engineers
- Member: Pambansang Samahan ng Inhenyero Mekanical

TRAININGS:

- **Level - 3 Training on Marine Engine (Engine Overhauling, Trouble Shooting and Repair)** - Held at MHIESP Office last Sept. 17-18, 2015.
- **Machine Wear Analysis Basic** - conducted by CRE Laboratories Corp. last Dec. 13, 2018.
- **SRV(S16R) Engine Technical Training** - conducted by Mitsubishi Heavy Industries Engine and Turbocharger, Ltd. last Feb. 26 – 28, 2019.

EDUCATION:

College

Bachelor of Science in Mechanical Engineering with Mechatronics
Cebu Institute of Technology University
N. Bacalso Ave. Cebu City, Philippines March 2011

Secondary

Naval State University
Naval, Biliran, Philippines March 2006

Elementary

Talustusan Elementary School
Naval, Biliran, Philippines March 2002