



# CARMELO P. LAO

## FIELD ENGINEER

### PROFILE

I am a registered electrical engineer with five years of experience in the power industry specifically in CFB with strong creative and analytical skills. Team player with an eye for detail.

### CONTACT

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### EDUCATION

UNIVERSITY OF SOUTHEASTERN PHILIPPINES  
Bachelor of Science in Electrical Engineering  
2010 - 2015

### SKILLS

AutoCAD 2D      Certified Forklift Heavy Equipment Operator      G Suite Proficient  
Team Player      Creative Problem Solver      MS Office Proficient

### EXPERIENCE

FIELD ENGINEER | Therma South Inc. | 2017 - Present

- The position is responsible for on-site inspection, local monitoring and routine minor maintenance of the Boiler and Turbine/Generator and related auxiliary equipment and accessories, as well as for the operation, monitoring and maintenance of the Plant's water treatment equipment. The position's area of responsibility covers the Boiler, Turbine/Generator, standby Gen-set Unit, Water Treatment Systems and all other auxiliaries that form part of the boiler/turbine operations as well as the equipment composing the Plant's Water Treatment System.
- Inspects, monitors, records periodically in log sheets, and evaluates the physical condition of the Boiler, Turbine/Generator and related auxiliary equipment and accessories on-site as well as the operating values indicated at local instruments and panels to detect evidence of equipment malfunction and/or deviations from prescribed standards. Reports any abnormalities observed to immediate Supervisor for appropriate action.
- Regulates and adjusts auxiliary equipment with local controls to achieve stable operations upon the instruction of the Control Room Engineer or Shift Supervisor. • Maintains the cleanliness of equipment, auxiliaries, and accessories within the area of responsibility using appropriate cleaning methods to prevent equipment deterioration. • Test-runs emergency generators and all stand-by equipment and records in log sheets in accordance with standard operating procedures to ensure reliability and performance.

- Assists the Control Room Engineer and/or Maintenance team in equipment repair and maintenance procedures to facilitate the servicing of equipment as needed. • Operates water treatment equipment following operating procedures and specifications to ensure the safe and reliable production of specified water quality. • Monitors, records periodically in log sheet, and analyzes equipment operating conditions and water quality parameters to detect deviations from standards and/or other problems, and executes necessary corrective measures. Promptly reports to the Supervisor any problems that cannot be handled by the incumbent for appropriate action.
- Ensures the water basins/pools and chemical tanks are clean and disinfected in accordance with established procedures including proper disposal of chemicals, to prevent contamination.
- Ensures the proper treatment of wastewater in accordance with established procedures in compliance with government regulations.
- Prepares and submits status reports on the water treatment operations for reference and control.
- Inspects, maintains, troubleshoots and conducts minor repairs on auxiliary equipment and accessories to keep them in good working order at all times. Reports problems encountered to immediate Supervisor for information and/or appropriate action.
- Coordinates the preventive and corrective maintenance of equipment with the Maintenance Department to ensure optimum performance.
- Complies with occupational safety, health and environmental rules and regulations to avoid accidents, illness, and adverse effects on the environment.

#### CADET ENGINEER | Therma South Inc. | 2016 - 2017

- Technical Training Lecture Course in a 2 x 150 MW Fuji Steam Turbine Generators, Circulating Fluidized Bed (CFB) Coal Fired Power Plant:

Boiler Protection System	Turbine Protection System	Generator System
Combustion and Air Fluidizing System	Coal Feeding System	Soot blower System
Limestone Feeding System	Sand Feeding System	Diesel Oil System
Cooling Water System	Seawater Circulation System	Power Block
Turbine-Generator Lube Oil System	Turbine Extraction System	Fly ash System
Water Treatment System	Demineralization System	Balance of Plan
Wastewater Treatment System	Bottom Ash System	
Condensate and Feed Water System	OJT at Different Department	
Coal Handling Department	Water Treatment Department	

#### BUILDING OPTIMIZATION OPERATOR | ISH Business Solutions | 2016

- Monitor the HVAC system at customer buildings remotely through Building IQ proprietary user interface software, to identify and diagnose operating changes outside of normal system operating parameters
- Gather and evaluate building controls technical information, creating structured and logical diagnoses to rectify basic control issues
- Adjust variable settings as required to ensure systems operate correctly within defined parameters
- Carry out routine checks for correct operation of all HVAC controls equipment as directed
- Maintain daily activity logs and distribute the information as required • Develop a working practice to enable pro-active support of assigned customers.
- Capitalize on all opportunities to learn from day-to-day situations and knowledge sharing with colleagues
- Maintain accurate electronic records of all tasks undertaken
- Generate weekly and monthly M&V reports as scheduled.

# AFFILIATION

REGISTERED ELECTRICAL ENGINEER

Institute of Electrical Engineers of the  
Philippines Incorporated - Member

2015 - PRESENT

# REFERENCE

VICTOR ANGELO MICLAT

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