

MERRELL PASIA AREVALO

ELECTRICAL ENGINEER/ TECHNICIAN

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Loc: Larne, Northern Ireland BT40 1RY, UK

Summary of Qualifications:

- Total work experience: *19years*.
- Field of Expertise: Production, Maintenance, Field Service, Construction, Engineering
- Skills: Technical Leadership, Management, Coordination, Detail-oriented
- Multi-skilled and technically-equipped
- Computer Literate (MS Offices, AutoCAD, Google SketchUp, Basic Troubleshooting)

Engineering & Construction Industry

- Field Servicing skills for Testing and Commissioning, maintenance and troubleshooting of Power Inverters for Battery Energy Storage System (BESS) and Solar Power system
- With expertise in Construction, Engineering, Supervision, and Quality Control Management from different projects like:
 - Power Generation Plant – Combined Cycle Gas Turbine (CCGT)
 - Gas-Insulated Substations (GIS-400kV, 220kV, 132kV, 66kV)
 - Extra High Voltage Transmission Lines
 - Medium Voltage Substation (Indoor and Package Unit)
 - NGL Utilities and Facilities
 - Commercial and High-Rise Building
 - Infrastructure Utilities - Roads and Bridge
 - Telecommunication system OSP and ISP
- Quality Inspector in HVAC, Electrical, Fire Protection, Security (MEPFS)

Production Industry

- Hands-on assembly of electrical system for large scale gensets
- Extensive involvement in production improvement, operation and maintenance in Manufacturing set-up
- Able to review and analyze schematic drawings of manufacturing equipment integrated in production line
- Familiar in international codes and standards and relevant engineering practices
- Quality control on the end-product
- Manpower and material management

Professional Qualification:

- Registered Electrical Engineer
Certified by Professional Regulations Commission of the Philippines since September 2003
License #: 32395
- Registered Master Electrician
Certified by Professional Regulations Commission of the Philippines since September 2003
License #: 28249

Work Experiences:

Apr. 2023 to Present

Electrical Technician/ Electrician

Area: Caterpillar (NI) Ltd., Larne, Northern Ireland

Company: Raymart Developments Ltd.

Type: Manufacturing – Generator set

- Assembly and sub-assembly of Electrical system of large scale Gensets as per specification and wiring diagrams
- Test, examine and replace faulty electrical equipment or wiring
- Facility maintenance works in the factory
- Off-site servicing with clients

Dec. 2020 to Mar. 2023
(2 years, 3 months)

Technical Service Engineer

Area: Luzon-wide

Company: Power Electronics (Spain)

Type: Testing and Commissioning – Solar Power Inverters for Energy Storage System(ESS)

- On-site and/or remote technical support for testing and commissioning of equipment and routine maintenance
- Identifies technical problems and resolves with engineering analysis
- Creating good communication and relation with the customer with on-call services
- On-site travels as requested by the customers
- Conduct training before handover
- Preparation of report and work plan
- Spare parts management

Nov. 2019 to Sep. 2020
(10.5months)

Electrical Engineer

Project: Kazungula Bridge Project

Company: Daewoo E&C

Location: Kazungula, Zambia

Type: Construction – Infrastructure (Bridge)

- Oversee electrical activities at site, resolving issues and ensuring the works are completed as per project specification.
- Review, analyze, and revised related drawings for site implementation
- Coordinate with other engineering trades
- Material preparation and method statement
- Prepare and submit work inspection request
- Energization, System testing, and Pre-commissioning
- Daily reports and updates

Jun, 2015 to Mar, 2019
(3 Years, 10 Months)

Quality Engineer – Electrical

Project: New Orbital Highway/ People Mover System (Metro/Rail System)

Company: Leighton Contracting Qatar

Location: South west of Doha/ Qatar Education City

Type: Construction – Infrastructure (Roads, Expressway)/ Metro/ Rail System

- Check and submit relevant drawings required for inspection
- Prepare and organize daily inspection plan with the consultants
- On-site inspection of all Electrical activities such as Equipment installation, Road Lightings, cabling works, Power Transmission lines (overhead and underground), Earthing system, Indoor and package unit substation and responsible to perform and or witness the system performance testing

- Material Inspections prior to on-site use
- Prepare inspection and test plan
- Support in preparing daily/ monthly quality control report

Aug, 2013 to Jan, 2015
(1 year 6 months)

Electrical/ Telecommunication Inspector (Level 1, SAP #: 70017757)

Project: NGL Recovery and Utilities Facilities Project (ARAMCO)
EPC: Samsung Saudi Arabia
Company: Sejong Saudi Arabia LLC
Location: Package#2, Shaybah, Saudi Arabia
Type: Construction – Industrial (Natural Gas Liquid Utilities and Facilities)

- Prepare and submit request for inspection to the consultant
- Check and review attached documents for inspection
- On-site inspection of electrical activities inside buildings such as installation of conduits, cable trays, cabling, equipment, and devices, Structured Cabling, and Fiber Optic Placing
- Conduct various performance testing (OTDR, UTP cable testing) as per project requirement
- Prepare Inspection and test plan for Electrical and Telecom activities
- Direct the concerned supervisors or foremen for any rectification and/or modifications works

Feb, 2013 to Jul, 2013
(6 months)

MEPF Coordinator/ MEP QC Head

Project: Globe Telecom Tower
Company: DDT Konstruct Inc.
Location: BGC, Taguig, Philippines
Type: Construction – High Rise Bldg.

Assist and support in testing and commissioning activities prior to handover to owner.

- Meetings with all MEPF subcontractors in-charge
- Planning, coordination, and supervision of activities
- Implement quality procedures
- Closing out of non-conformance reports
- Weekly Report preparation

Jun, 2011 to Jan, 2013
(1 year 8 months)

MEP QC Engineer (Electrical)

Project: Commercial Development – Al Mirqab Mall
Company: TERNA – Qatar LLC
Location: Al Nasser, Doha, Qatar
Type: Construction – Commercial

- Prepare and submit request for inspection to the consultant
- Prepare and organize daily inspection plan with the consultants
- On-site visual inspection of Electrical and Mechanical works
- Prepare Inspection and test plan for Electrical and Mechanical activities.
- Material Inspections prior to on-site use
- Conduct various performance testing as required in project specification

Dec, 2008 to Mar, 2011
(2 years 4 months)

Electrical Engineer/ QAQC

Project: Ras Girtas Power Company – Independent Water and Power Project (RAPO-IWPP)
Company: Al HasounSejong E/M Est. (electrical)
Location: RasLaffan, Qatar
Type: Construction – Industrial: MED-Desalination Plant, CCGT-Power plant, GIS-Substation

- Review and analyze relevant drawings for construction site application
- Oversee electrical activities at site, resolving issues and ensuring the works are completed as per schedule and as per Project specification
- Implement relevant references for the project such as NFPA70, BS, IEC, QCS, KAHRAMAA
- Prepare red-mark and as-built drawing
- Prepare Method Statements, Inspection test plan (ITP), and checklist.
- Coordinate system integration for Fire alarm, Fire Protection, Paging, HVAC, & Electrical System
- Conduct various performance testing for electrical and telecom works as required in project specification

Feb, 2007 to Dec, 2008
(1 year 11 months)

Production Development Engineer – Electrical/Maintenance

Company: Toyota Autoparts Philippines Inc.

Location: Laguna, Philippines

Type: Manufacturing

Provide engineering support to production and maintenance activities for breakdown preventions

- Handle, lead, and execute special project in the production line such as Sizing and Installation of Surge Protective Device (SPD), overhauling of mechanical parts, and machine relocation and set up
- Prepare and implement long term plan and project activity plan and budget plan for preventive maintenance activities and line improvements
- Prepare Good Parts Setting Condition and Machine Control Standards
- Analyze, interpret, and troubleshoot electrical and mechanical equipment failures
- Project team leader of line improvements and maintenance activities.
- Report preparations: justifications, cost reductions, and improvements

Jul, 2004 to Feb, 2007
(2 years 8 months)

Process Engineer – Electrical

Company: Futaba Corporation of the Philippines Inc.

Location: Laguna, Philippines

Type: Manufacturing

Provides production line improvements for machines/equipment set-up

- Supervise machine technicians during preventive maintenance activities.
- Prepare drawings & layouts of machine set-up with specifications of circuit protections and conductor sizes.
- Technical support along the production line from front to end of line
- Process and Quality control, and Productivity and Yield Improvement.
- Implement Failure Mode and Effect Analysis (FMEA) and Corrective and Preventive Actions and other tools for production line improvement
- Prepare daily and monthly improvement reports

Education:

Field of Study: *Bachelor of Science in Electrical Engineering (BSEE)*
 School: Batangas State University, Philippines
 Date Graduated: June 2003

Short Course Attended:

- Sep 16, 2016 to Nov 4, 2016
(40Hrs) **Applied Project Management**
(Based on Project Management Body of Knowledge, PMBOK 5thed.)
3Fold Education Centre, Doha, Qatar
- Aug 6, 2006 to Sep 24, 2006
(66hrs) **Advance Industrial Motor Control**
(PLC Troubleshooting, and Variable Frequency Drives Application)
MERALCO Foundation Institute (MFI), Manila, Philippines

Seminars and Trainings:

- November 3, 2023 **CONSTRUCTION SKILLED REGISTER**
Health and Safety Course
BEMAC Trading Ltd., Crumlin Northern Ireland BT29 4SR
- November 2, 2023 **MANUAL HANDLING (Certificate: #669897/28716994/18763852)**
Salus Training, Northern Ireland
- September 17, 2022 **FUNDAMENTALS OF LOAD SHEDDING IN POWER SYSTEM OPERATION**
Institute of Integrated Electrical Engineers, National
- May 01, 2021 **Process and Consideration in Electrical Design for High Rise Bldg. and Mixed Used**
Institute of Integrated Electrical Engineers, National
- Jan 8, 2021 **Level_03_Storage_Freemaq PCSK / Multi PCSK**
Corporate University of Power Electronics
- Jan 14, 2021 **Level_02_Solar_Freesun HEMK**
Corporate University of Power Electronics
- February 16, 2018 **Introduction to GIS; Insulation Coordination, Fundamentals of Short Circuit Calculations**
Holiday Inn-Doha, Business Park Doha Qatar
- September 2, 2016 **ARC Flash Analysis and Study, Planning & Design of UG Electrical Distribution System, Philippine Solar Energy Opportunity**
Sapphire Hotel, Doha Qatar
- January 19,24,27, February 3, 2002 **Family Council Leadership Seminar**
Futaba Corporation of the Phils, LTI Binan Laguna

Signed: Merrell Pasia Arevalo