



# Nazmin Zulbadli



## PROFILE

Experienced in Electrical, Instrumentation & Control System with history in Palm Oil Mill, Water Treatment Plant, Mining & Metal Industry and Oil and Gas. Skilled in Process Control & Design (FEED), PLC & SCADA Development, Electrical Design & Wiring, Instrumentation and Project Management for Electrical, Instrumentation & Control System.



## EXPERIENCE

**Company** : Graymont | Petaling Jaya - Malaysia  
**Date** : January 2020 - Current  
**Position** : Process Engineer  
**Specialization** : Technical support for Electrical, Instrumentation and Control System  
**Industry** : Limestone Mining

### WORKSCOPE:

- Act as controls and instrumentation engineer lead in interfacing with other engineers and department as required.
- Design, develop and implement control system as per Graymont standard.
- Maintaining and modifying existing system (PLC and HMI).
- Programming PLC, HMI, tuning control loop and optimize control system and improving process.
- Preparing RFQ and SOW for electrical, instrument and control system, process network according to project.
- Technical support and participation in improving plant process.
- Review and endorsement of technical documentation by contractor.
- Analyze plant process and data to determine process improvement.
- Technical support in plant troubleshooting and fault finding.
- Calibrate instrument, tuning control loops and optimize advance control and expert control system
- Technical Support for South East Asia plant.

**Company** : Enproserve Sdn Bhd | Puchong - Malaysia  
**Date** : Feb 2019 – July 2019  
**Position** : Electrical and Instrumentation Engineer  
**Specialization** : Project Management – Electrical, Instrumentation and Control System  
**Industry** : Oil and Gas

### WORKSCOPE:

- Responsible for Management of Electrical, Instrumentation during engineering, construction and commissioning.
- Coordination between Consultant, Client, Vendor and Contractor to meet project requirement and schedule.
- Assist procurement in purchasing activities and vendor submission

### DETAIL WORKSCOPE:

- Engineering Design
  - o Reviewing engineering drawing and document submission from consultant.
  - o Identifying and markup any discrepancies of design and technical specification.
  - o Conducting discussion between Client and Consultant to meet project engineering design and plant practice.
  - o Verifying scope of work for each vendor and material needed during construction.
- Construction Stage

- Witnessing and inspection of material from vendor and conducting RFI (Request for Inspection) with Client.
- Responsible of preparation of JMS (Job Method Statement) and JHA (Job Hazard Analysis) for each vendor.
- Planning on construction site work schedule and provide site work progress report.
- Managing and supervising site work, SAT (Site Acceptance Test) and Pre-Commissioning activities from vendor.

#### PROJECT ARCHIEVEMENT:

- Client : Malaysian Refining Company Sdn Bhd (Petronas Penapisan Melaka)
- Location : Melaka
- Status : Ongoing
- Detailed :
  - EPCC - FGRU Sweetener Treatment Plant
    - Modification of Safety Guard System (SGS)
    - Modification of Fire Gas System (FGS)
    - Modification of Distribution Control System (DCS)
    - Adding new electrical motor
    - Adding new instruments

**Company** : Alhusna Dinamik Enterprise | Kajang - Malaysia  
**Date** : Feb 2018 – Jan 2019  
**Position** : Founder (SME Business)  
**Industry** : Food & Beverage

#### WORKSCOPE:

- Joined entrepreneur programme by government agency (Minister of Agriculture), MARDI.
- Product Development and Production of powdered food.

**Company** : Nouvelle Gabon Mining SA | West Africa - Gabon  
**Date** : Jan 2017 to Jan 2018  
**Position** : Electrical, Instrumentation & Control Engineer  
**Specialization** : Operation  
**Industry** : Manganese Mining

#### WORKSCOPE:

- Responsible for carry out Electrical, Instrumentation & Control breakdown on plant.
- Mentoring and supervision for technician on maintenance as to follow procedure and operations.
- Prepare inventory for Instrumentation & Control system.
- Involving in Plant Improvement after construction.

#### DETAIL WORKSCOPE:

- Operation stage
  - Training Operation staff to operate plant as accordingly.
  - Provide advice and support to improve plant process.
  - Involving in plant improvement project.
  - Troubleshooting problem occurs during operation.
  - Prepare Instrumentation maintenance schedule.

**Company** : Nouvelle Gabon Mining SA | West Africa - Gabon  
**Date** : July 2016 to Dec 2016  
**Position** : Electrical, Instrumentation & Control Engineer  
**Specialization** : Project Management – Instrumentation and Control  
**Industry** : Manganese Mining

#### WORKSCOPE:

- Reviewing Project Specification, Documents, Drawing, and Data Sheet from supplier related to Electrical. Instrumentation and control system.
- Reviewing scope of work, drawing and executing construction activities in line with project.
- Coordinating and driving construction team activities between staff, contractor and supplier, supervising completion work.
- Testing, Pre-Commissioning and commissioning system as per project requirement.

- Identifying potential skill and provide training among staff, opportunities for enhancing career growth and performance.

**DETAIL WORKSCOPE:**

- Construction stage
  - o Review technical documentation provided by consultant.
  - o Liaise closely with contactor scope of work to meet dateline.
  - o Planning project schedule for construction.
  - o Determine Instrumentation, Remote IO box and Control Room location on plant.
  - o Determine Power and Instrumentation cable routing and installation method.
- Testing & Commissioning
  - o Taking part in Pre-commissioning and commissioning stage.
  - o Preparing documentation and checklist require.

**PROJECT ARCHIEVEMENT:**

- Client : Nouvelle Gabon Mining SA
- Location : Gabon, West Africa
- Status : Completed, Operation Stage
- Detailed :
  - o Involve in Construction stage, Testing and Commissioning stage, Plant Operation
  - o Brand Use:
    - PLC & SCADA System : Siemens S7-300 and WinCC
    - Instrumentation : Vega, Siemens
    - Gauges : Wika
    - Valve : Invincible Valve

**REASON OF LEAVING:**

- Termination of contract due to company acquisition.

**Company** : ASVI Technical Service Group Limited | Kuala Lumpur - Malaysia  
**Date** : Jan 2013 to February 2016  
**Position** : Instrumentation & Control Engineer  
**Specialization** : Project Management – Instrumentation and Control  
**Industry** : Gold Mining

**WORKSCOPE:**

- Design and developing control system for gold mining processing plant.
- Preparing tender document, project specification and RFQ, supplier bid evaluation, bill of material base on P&ID within CAPEX.
- Work closely and liaise with supplier and contractor, reviewing documentation and work scope awarded.
- Planning and coordinate construction work between engineers, purchaser and clients to meet project dateline.
- Supervise and mentoring technician on maintenance work as project requirement.
- Troubleshooting and consultancy support for clients.

**DETAIL WORKSCOPE:**

- Designing stage
  - o Reviewing Control Philosophy and P&ID proposed by Consultant.
  - o Preparing project specification, RFQ, IO List.
  - o Preparing design, interlocking system to Clients.
  - o Selecting potential supplier through supplier selection evaluation.
- Construction
  - o Review technical documentation provided by supplier.
  - o Monitoring work progress by supplier.
  - o Planning project schedule for construction.
  - o Determine Instrumentation, Remote IO box and Control Room location on plant.
  - o Determine Power and Instrumentation cable routing and installation method.
  - o Attending HFAT and SFAT from supplier.
- Testing & Commissioning
  - o Preparing testing document, procedure and checklist.
  - o Taking part in Testing and Commissioning stage.
- Plant Maintenance
  - o Reviewing maintenance schedule and procedure by construction team.

- Preparing tools and spare part list as require.

#### PROJECT ARCHIEVEMENT:

- Client : Cassidy Gold Mine
- Location : Guinea, West Africa
- Status : Completed 1<sup>st</sup> phase construction
- Detailed :
  - Involve in designing stage, development of P&ID and control philosophy. Installation of controller, monitoring and logging system device.
  - Brand Use:
    - PLC & SCADA System : Deep Sea Electronics for Weather Station unit
    - Controller : Yokogawa Paperless Recorder & PID Controller
    - Gauges : Wika
    - Valve : Weir Mineral, Kitz
- Client : Apex Mining Co Inc
- Location : Davao, Philippines
- Status : Handover to Clients
- Detailed :
  - Involve in designing stage, development of P&ID and control philosophy, construction stage.
  - Brand Use:
    - PLC System : GE Fanuc RX3i, GE Versamax Remote IO
    - SCADA System : Schneider Citect SCADA
    - Instrumentation : Krohne, Vega
    - Gauge : Wika
    - Valve : Mascot, Weir Mineral, Flowrox

#### REASON OF LEAVING:

- Project cancellation which resulting staff retrenchment.

**Company** : Logicart Sdn Bhd | Shah Alam - Malaysia  
**Date** : July 2007 to Dec 2012  
**Position** : Senior Application Engineer  
**Specialization** : Electrical, Instrumentation and Control System  
**Industry** : Palm Oil

#### WORKSCOPE:

- Designing electrical panel and system based on project requirement.
  - Electrical panel layout and scheme diagram.
  - Bill of Material, component and equipment use.
  - Electrical calculation.
- Programming PLC, HMI Touch Screen and SCADA System.
  - Preparing IO List, control philosophy base on P&ID.
  - PLC Programming work (Ladder, Function Block).
  - Graphical Design & Layout for HMI Touch Screen and SCADA.
  - Additional PLC and SCADA function as project requirement.
- Setting Instrumentation Base on Controls.
  - Motor VFD and Soft Starters.
  - Sensor and Transmitter, PID Controllers and Data Logging Device.
- Testing, Troubleshooting, and Commissioning Work.
  - Preparing testing document, and checklist.
  - Electrical Panel troubleshooting at site.
  - Assist and manage installation work by team member to meet dateline.
  - Testing and commissioning work at site.

#### PROJECT ARCHIEVEMENT:

- Location : Malaysia, Indonesia, Thailand
- Project : Boiler Palm Oil Mill and Water Treatment Plant
- Client List :

- Vickers Hoskins Sdn Bhd
- Boilermech Sdn Bhd
- Petra Energy Berhad (Plantation Division)
- Mackenzie Industries Sdn Bhd
- Aquakimia Sdn Bhd
- Enersave Water Sdn Bhd
- Brand Use:
  - PLC - Schneider Modicon, Siemens S7 Series, Omron CP Series, Allen Bradley Control Logix, Fatex PLC
  - HMI & SCADA - Indusoft SCADA, Siemens WinCC, Allen Bradley Factory Talk, Schneider Citect SCADA, Schneider Invensys Wonderware, GE Simplicity
  - Recorder – Yokogawa, Rototherm, Shimaden
  - Controller – Yokogawa, Chino, TAIE, Omron
  - VFD and Softstarter – Schneider Altivar, Fuji Frenic, Danfoss FC Series, Allen Bradley PowerFlex, Siemens Micromaster
  - Pneumatic System - Danfoss, Festo, SMC, Wika

REASON OF LEAVING:

- Seeking for career enhancement and new experience.

**Company** : Ultra Automation Sdn Bhd. | Shah Alam - Malaysia  
**Date** : Oct 2006 to June 2007  
**Position** : Technician  
**Specialization** : Electrical, Instrumentation and Control System  
**Industry** : Palm Oil

WORKSCOPE:

- Testing Electrical Panel (FAT).
- Assist and manage project to meet schedule.
- Electrical Panel troubleshooting at site.
- Setting Instrumentation base on controls.
  - Transmitter, Control Valve, PID Controller.

PROJECT ARCHIEVEMENT:

- Location : Malaysia, Indonesia
- Project : Boiler and Sterilizer system in Palm Oil Mill
- Client List :
  - Vickers Hoskins Sdn Bhd
  - Boilermech Sdn Bhd
  - Petra Energy Berhad (Plantation Division)
- Brand Use:
  - PLC - Omron CP Series, Allen Bradley Control Logix, Fatex PLC
  - HMI & SCADA - Indusoft SCADA, Schneider Citect SCADA, Fuji HMI, Proface HMI
  - Controller –TAIE, Omron
  - Control Valve – Ari Armaturen
  - Pneumatic System - Danfoss, Festo, SMC, Wika

REASON OF LEAVING:

- Transferred to subsidiary company, Logicart Sdn Bhd.



## EDUCATION

**Diploma of Engineering (Electronic Industry) | University Malaysia Pahang - Malaysia**

2003 – 2006

CGPA : 3.12 / 4.00

**Secondary School Level of Science & Technology | Sekolah Menengah Teknik Ampangan Seremban - Malaysia**

2000 – 2002

GRADE : 3A 3B 4C

## Industrial Training

**Company : Telekom Malaysia**

**| Seremban - Malaysia**

**Date : May 2006 to Aug 2006**

**Position : Trainee**

**Industry : Telecommunication**

### WORKSCOPE:

- Learning telephone and internet system provide by Telekom Malaysia.
- Site troubleshooting.



## SKILLS

### HARD SKILLS

- Autocad Electrical
- Photoshop Graphic Design
- HTML Website Development
- Computer and Networking System

### SOFT SKILLS

- Decision Making
- Time Management
- Adaptability
- Responsibility



## OTHERS

Language	Spoken	Written
Bahasa Malaysia	10	10
English	8	8
French	2	0

JobStreet.com English Language Assessment [www.jobstreet.com]

Last Date Taken	Score
1 Oct 2015	35/40
18 Jan 2016	30/40
14 Feb 2018	36/40

### Personal Particulars and Preference

Date Of Birth	8 Oct 1985
Nationality	Malaysia
Gender	Male
Personal Status	Married
Own Transport	Yes
Willing to Relocate	Yes

OGSP – Oil and Gas Safety Passport – Validity 9 Feb 2022

Safety Visa for MRC Sdn Bhd

