

MUHAMMAD MARCELINO

ELECTRICAL ENGINEER

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Jl. Kedasih II 2, Kecamatan Cikarang Utara, Kabupaten Bekasi, Jawa Barat 17530

WORK EXPERIENCE

PT. Oriental Abadi Indonesia

Juli 2023 - Present

Mekarmukti, North Cikarang, Bekasi Regency, West Java

Electrical Engineer

Industrial Automation System

- Programmed and installed Mitsubishi PLC systems for industrial automation.
- Installed pneumatic and vacuum systems to support automation lines.
- Designed electrical panel wiring diagrams and prepared component specifications.
- Conducted machine commissioning, diagnostics, and troubleshooting.
- Produced comprehensive technical documentation for operations and support.

PT. Vertech Perdana

Feb 2022 - Jun 2022

Serpong High Way, Gunung Sindur, Bogor Regency

Junior Engineer

Authorized Distributor Siemens Indonesia

- Designed electrical panel wiring diagrams.
- Prepare materials and tools to be brought to the site.
- PLC wiring panel on site and workshop.

EDUCATION

Padang State Polytechnic

Sep 2019 - Sep 2022

Limau manis, Padang City, West Sumatera

Diploma in Diploma Degree in Electrical Engineering, 3.28/4.00

- Making the final project "Monitoring System for Metal and Non-Metal Sorting Devices Based On Programmable Logic Controllers" (Agustus 2022).

PROJECT EXPERIENCE

PT Mandom Indonesia

- Installed machine automated perfume filling system with Mitsubishi FX3U PLC and GOT Simple Series.

PT Indonesia Nippon Seiki

- Project installed machine pick and place use IGUS scara robot with PLC Mitsubishi FX5U and HMI Wecon.

PT Ohtomi Teknologi Indonesia

- Installed NG vision for quality control labeling.

PT Astra Honda Motor

- Plant 3 - Installed VMECA VTC 3032 vacuum generator system.

PT NSK Bearings

- Integrated YAMAHA stepper slider with TS-SH controller

PT Paragon Technology and Innovation

- Integrated KUKA scara robot with PLC Mitsubishi FX3U and HMI haiwell.

PT Indoagri Daito Cacao

- Wiring electric I/O valve control system connect to modul I/O PLC.
- Wiring and setting electric sensor pressure switch Keyence seri GP-M connect to modul analog PLC.
- Wiring communication modbus loadcell connect to switch hub and addition parameter setting in intelligent function modul QJ71MT91.
- Addition wiring control motor pump and motor blower use communication CC-Link Connect to modul CC-Link.
- Wiring electrical addition new Baseplate PLC, PSU, Modul I/O, and Modul Analog.
- Addition Program ladder PLC for proses transfer product from weighing tank to mixer tank.
- Addition Screen GOT 2000 in Control Room and HMI production line.

CORE COMPETENCIES

- PLC Programming (Mitsubishi & Omron)
- Electrical Panel Design & Wiring Diagrams
- System Integration & Automation Projects
- Motor Control & Inverter Systems
- Pneumatic & Vacuum System Maintenance
- Machine Commissioning & Diagnostics
- Electrical Maintenance & Troubleshooting
- Design HMI (GOT 2000)