



PLC - SCADA - IOT - AUTOMATION

COMPANY PROFILE



**AUTOMATION
CONTROL SYSTEM
PROCESS AND SAFETY
MONITORING SYSTEM**

www.rumahotomatis.com

ABOUT COMPANY



Innovasindo smart system is a system integrator company in Indonesia. Established since 2014 with the main business services of advanced PLC (Programmable Logic Control) and SCADA (Supervisory Control and Data Acquisition) technology for various fields of industrial automation in manufacturing, utilities, oil & gas and other industrial services.

Along with the development of technology and digitalization, Innovasindo Smart System added other business service lines including BMS (Building Management System), PMS (Power Management System), OMS (Online Monitoring System). With the increase in business services, the company has added value and competitiveness in the industry. We believe that flexibility and innovation are the keys we can provide the best service for all the services we provide to customers.

OUR VISION MISSION



Vision

To be a company that contributes to national development, grounded in the values of integrity, blessings, and broad benefits for the community.



Mission

- Developing products and services that deliver real added value to the advancement of Indonesia's economy, society, and technology.
- Operating the company based on the principle of blessings, which includes honesty, responsibility, and genuine concern for social and environmental impact.
- Creating a healthy and productive work environment while nurturing human resources to be excellent, ethical, and full of integrity.
- Collaborating with various stakeholders such as government, communities, private sector, and academia to build sustainable solutions for Indonesia.
- Managing the business professionally and efficiently while upholding spiritual values and ethical principles in every decision-making process.

WHY?

We build automation not just to control systems, but to create meaningful impact for people, society, and the future of Indonesia.

CERTIFICATE





INDUSTRIAL AUTOMATION

We support various industrial automation services including PLC, HMI, SCADA, troubleshooting and integration of several devices to be built as a new system

BUILDING MANAGEMENT SYSTEM

A building management system, also known as BMS, is a computer-based control system that is applied to buildings. Its function is to control and monitor building mechanical and electrical equipment such as ventilation, lighting, power systems, fire safety systems, and other security system

POWER MANAGEMENT SYSTEM

Power management systems help ensure the safe, reliable, efficient, and compliant operation of your electrical distribution systems, including the assets connected to it. This power management system can determine the appropriate system response to a variety of changes and disturbances by using electrical and physical parameters, loading and generation levels, network topology, and control logics.

ONLINE MONITORING SYSTEM

The system compiles all relevant information about every project in one system. These data can then be accessed by any users, anytime, and anywhere. All project will take place through the online monitoring system and in this sense the system will fully support the vast majority of programme operations and activity.

CONTROL PANEL ASSEMBLY

We have capability to design and build all types of control panels as well as electrical panels complementing our automation control system and facilitating the integration of the electrical system with the overall SCADA system.

FIELD SERVICE

**Field Instrument**

Installing power and communication cables to ensure stable, secure, and industry-standard system connections.

**Instrument Calibration Services**

Calibrating instruments to maintain measurement accuracy and ensure compliance with technical and quality standards.

**Installation of Field Instrument**

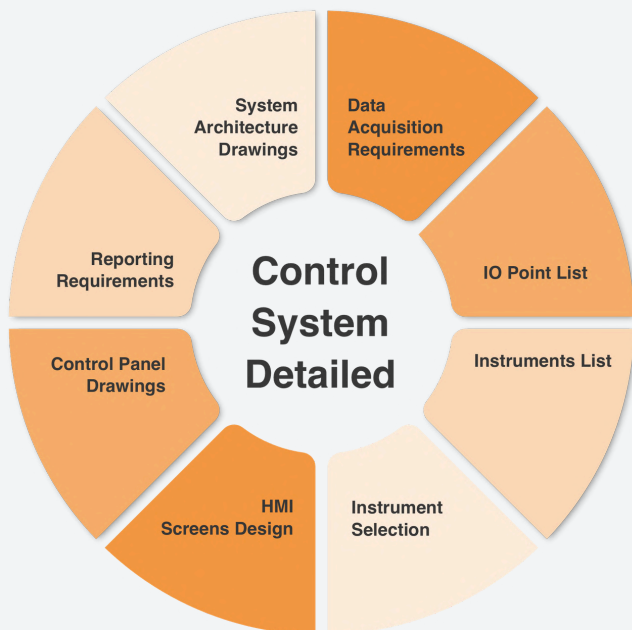
Mounting sensors and actuators on-site to enable accurate monitoring and automated control of industrial processes.

**Control System Upgrade**

Upgrading software or hardware in control systems to enhance efficiency, reliability, and support new features like remote monitoring.

CONTROL SYSTEM DESIGN

The design of control systems is a specific example of engineering design. The goal of control engineering design is to obtain the configuration, specifications, and identification of the key parameters of a proposed system to meet an actual need. Its following technical aspect such as



Custom Industrial Software Development



We offer the development of custom industrial software solutions that interface with existing systems or the new one. It made to fit the customer's maintenance, planning or any other needs and requirements. Moreover, with 4.0 Industrial era this requirement need to upgradable to Online Monitoring System which can be accessed anywhere

Online Monitoring System



We offer a variety of smart services, cloud portals, and applications, which can be added anytime without any additional installation efforts. Customers can also add third-party solutions as needed, or even develop their applications. New sensors can simply be connected. As for maintenance, it can be maintained anywhere and anytime

Platform

We offer our clients the control their platform; we work closely with the clients in order to guide them in making the most suited selection for their specific needs for budgeting, development, aftersale and others.



**Rockwell
Automation**



**MITSUBISHI
ELECTRIC**



**DEEP SEA
ELECTRONICS**



**Power
Generation**



ELECTRIC

SIEMENS

BECKHOFF

YOKOGAWA



OMRON

ABB

PT. INNOVASINDO SMART SYSTEM

Monitoring and Control System

GENERAL ELECTRIC ENERGY

- Electrical power network quality monitoring
- Consumption measurement on particular equipment/ machine on the premises
- Photovoltaic parameters monitoring
- Optional monitoring of other switchgear Components

1

WATER AND OTHER LIQUID

- Pipe pressure monitoring and area flooding detection
- Media flow rate measurement (e.g. for wastewater at a water treatment plant)
- Water treatment plant control and monitoring
- wastewater treatment plant control and monitoring
- water quality monitoring

2

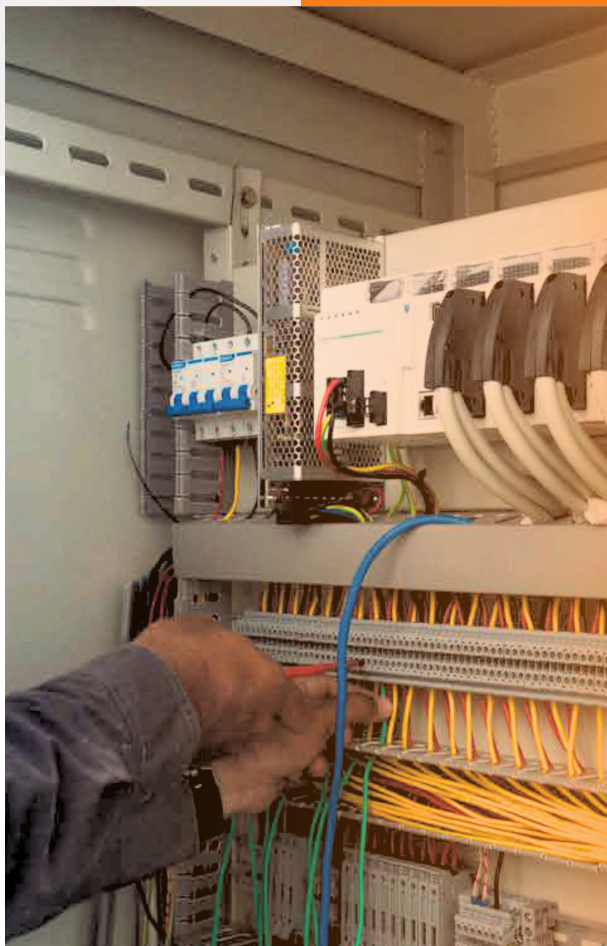
GAS

- Co2 leakage monitoring or early fire detection

3

Electrical and Control Panel Assembly

We have the in-house capability to design and build all types of control panels as well as electrical panels complementing our Automation Solution Division and facilitating the integration of the electrical system with the overall SCADA system. We also offer this service to outside clients as well supplying panels as per their design.



INDUSTRIAL AUTOMATION

Industrial automation is the use of technologies like PLC, SCADA, and HMI to control industrial processes automatically, reducing the need for manual intervention. PLCs execute programmed logic to control machines, SCADA monitors and records real-time data, and HMI provides a visual interface for operators. Together, they improve efficiency, safety, and productivity—making operations faster, more reliable, and ready for integration with modern Industry 4.0 systems.



DIESEL GENERATOR BLACK START AUTOMATION & MONITORING SYSTEM

This project automated the black start process of diesel generators, ensuring automatic startup when the main power supply fails. The system utilized PLC for control logic, HMI for operator interface, and SCADA for remote monitoring and data logging.



TOL CRANE WIKA

Automation and monitoring system for a construction toll crane, using PLC and HMI to precisely control crane movements, enhancing safety and operational efficiency.



JGC DPPU YIA AIRPORT METERING INSTRUMENT CALLIBRATION

Calibration of fuel metering instruments at Yogyakarta International Airport's Aircraft Refueling Depot, ensuring accurate flow meter readings and integration with the SCADA system.

RUMAH POMPA SRINGIN & TENGGANG SEMARANG

SCADA system implementation to control and monitor flood control pumps automatically, enabling pump speed regulation, water level detection, and real-time pump condition monitoring.



CONTROL SYSTEM FOR CNG PLANT EHK GROBOGAN

Automation and monitoring system for a Compressed Natural Gas facility, covering filling process control, pressure regulation, and safety features via integrated PLC and HMI.

DIESEL GENERATOR CONTROL HMI TRAKINDO

Design and implementation of an HMI interface for controlling and monitoring Trakindo diesel generators, including status indicators, alarms, and performance data.



DIGITALISASI PABRIK GONDORUKEM PERHUTANI SAPURAN

Transformation of the gondorukem factory's production process into a fully integrated digital system with PLC, SCADA, and industrial sensors for automatic monitoring of temperature, pressure, and flow.





WONDERWARE HMI SERVICES FOR COMPRESSOR PECIKO OFFSHORE PERTAMINA HULU MAHAKAM

Control and monitoring system for generators at the PHM facility, ensuring backup power availability with automatic start/stop functions and real-time critical parameter monitoring.

PPCI PEMALANG VALVE RETROFIT & CALLIBRATION

Retrofit of industrial valve actuators and calibration of pressure and flow sensors to improve process accuracy and efficiency.





RUMAH POMPA PULOMAS

Automation system for Pulomas flood control pumping station using SCADA and HMI, enabling centralized monitoring and remote pump control.

BENDUNG PIDEKSO WONOGIRI SCADA NETWORK COMMUNICATION AND ONLINE MONITORING

SCADA network communication deployment connecting the dam and pump stations, providing online monitoring of water levels, sluice gates, and equipment status.



DATA LOGGER, IOT, AND DIGITALIZATION

RumahOtomatis utilizes IoT-based data logger technology as a smart and connected solution for industrial monitoring. These devices collect sensor data—such as temperature, pressure, flow, or water quality—and transmit it in real time to cloud servers for online monitoring (Onlimo). This supports the digitalization of industrial processes, enabling remote monitoring of wastewater quality, energy consumption, remote gensets, solar panels, and environmental conditions. With flexible and customizable systems, RumahOtomatis empowers industries to improve efficiency and decision-making in the era of Industry 4.0.



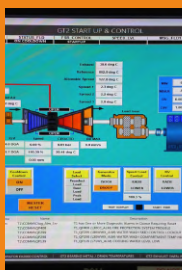
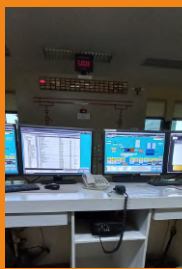
FLOWMETER ONLINE (PDAM BANYUMAS)

An online flowmeter monitoring system was implemented to track water distribution in real-time. This system supports PDAM in improving distribution efficiency and detecting leaks quickly and accurately.



DISPATCHER UP2B TO PLTG TELLO INTEGRATION

This project at PLN implements Data Logger, IoT, & Digitalization to enable seamless data communication between dispatch systems & power generation units. The system collects, transmits, and logs operational data in real time, providing better visibility, coordination, & data accuracy to support efficient and reliable system operations.



TEMPERATURE HUMIDITY MONITORING SYSTEM SAMUDRA LOGISTIC

This project integrated the Load Dispatch Unit (UP2B) system with PLTG Tello using IoT-based data logger technology. The system transmits operational data—such as electrical load, machine status, and performance parameters—in real time to the control center. This integration supports digitalization of power plant monitoring, enabling faster and more accurate decision-making.



BUILDING MANAGEMENT SYSTEM (BMS)

Also known as Building Automation, is a computer-based control system applied in buildings. Its main function is to control and monitor the building's mechanical and electrical equipment, such as ventilation, lighting, power systems, fire protection systems, and other security systems. PLCs and other SCADA systems can also be integrated and communicated with the BMS.



BUILDING MANAGEMENT SYSTEM - YIA AIRPORT

This project at Yogyakarta International Airport implements a Building Management System (BMS) to provide centralized monitoring and control of facility systems. It enables real-time data monitoring, alarm management, and historical trending to support efficient operations, system reliability, and data-driven decision-making.



BUILDING MANAGEMENT SYSTEM - SELAYAR

This project utilizes a Building Management System (BMS) to integrate and supervise multiple systems within a facility. With features such as real-time monitoring, system status visibility, and data logging, it helps improve operational consistency, efficiency, and overall system performance.



BUILDING MANAGEMENT SYSTEM - PLN UPDK TELLO

This project at PLN (UPDK Tello) implements a Building Management System (BMS) to support monitoring and control of power-related equipment, including load control, start/stop operation, and system status. The system enables real-time supervision, operational mode control (manual/auto), and alarm monitoring, helping improve reliability, efficiency, and operational control in power generation or utility environments.

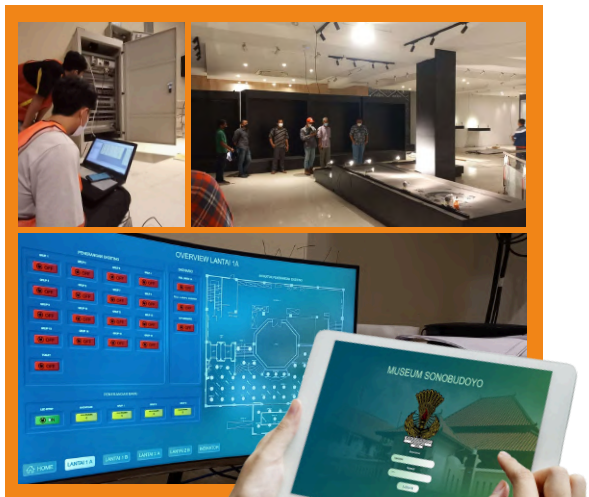
BUILDING MANAGEMENT SYSTEM -MUARA PANTUAN

This BMS project in Muara Pantuan implements a Building Management System (BMS) to centrally monitor and manage utilities, particularly electrical parameters such as kWh, current, voltage, and equipment load. The system enables real-time monitoring and historical data trending, supporting energy efficiency, operational reliability, and easier technical analysis and decision-making on site.



BUILDING MANAGEMENT SYSTEM MUSEUM SONOBUDOYO

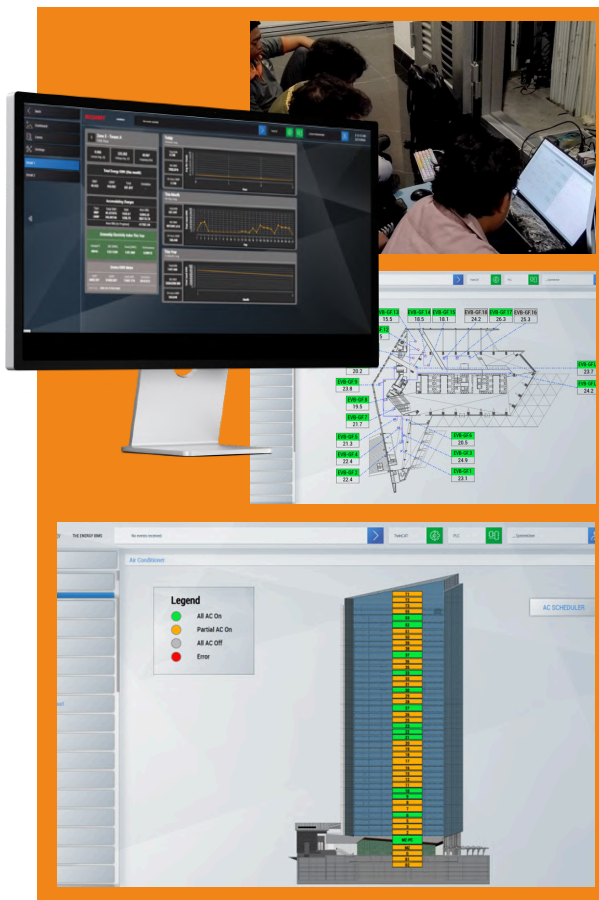
Implementation of a BMS to control and monitor mechanical and electrical equipment at Museum Sonobudoyo. The system includes lighting control, ventilation, air conditioning, as well as security and fire protection systems, all integrated into a single centralized control platform.



BUILDING MANAGEMENT SYSTEM

PT API META GRAHA

THE ENERGY BUILDING



The Energy Building implements Integrated Building Management System (IBMS) to centrally integrate and control building systems such as HVAC (air conditioning), lighting, and electrical, enabling efficient energy management, real-time monitoring, and data-driven operations while aligning operational, business, and technical requirements.

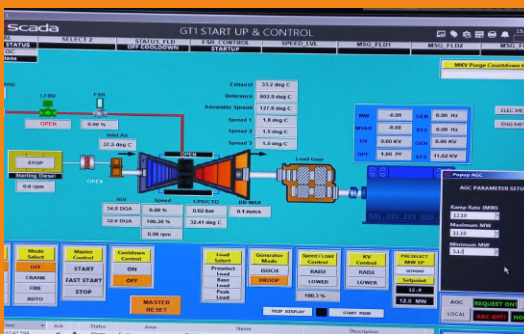
POWER MONITORING CONTROL

Power Monitoring Control is a real-time system for monitoring and managing electricity consumption to improve efficiency, reduce costs, and prevent energy waste. RumahOtomatis implements this system using data loggers integrated with electrical sensors and cloud connectivity, allowing users to monitor load usage, energy patterns, and performance via SCADA or HMI dashboards. The system includes alarms, historical trend analysis, and automated control features to directly support energy-saving efforts.



CONFIGURATION MONITORING ONLINE VT-SCADA, ULPLTG TELLO, MAKASSAR

Setup and configuration of an online monitoring system using VT-SCADA integrated with the BMS. This system enables real-time monitoring of building equipment status and performance, including alarms, data history, and remote control capabilities.



SPARING

We have the in-house capability to design and build all types of control panels as well as electrical panels complementing our Automation Solution Division and facilitating the integration of the electrical system with the overall SCADA system. We also offer this service to outside clients as well supplying panels as per their design.



**Below are the mandatory
SPARING sensor types designated
for each respective industry sector:**



RAYON PH, COD, TSS, DEBIT	PULP & KERTAS PH, COD, TSS, DEBIT	PETROKIMIA HULU PH, COD, TSS, DEBIT	OLEOKIMIA DASAR PH, COD, TSS, NH3-N, DEBIT	KELAPA SAWIT PH, COD, TSS, DEBIT	PENGOLAHAN MINYAK BUMI PH, COD, NH3-N, DEBIT
EKSPLORASI DAN PRODUKSI MIGAS PH, COD, NH3-N, DEBIT	TAMBANG EMAS DAN TEMBAGA PH, TSS, DEBIT	TAMBANG BATUBARA PH, TSS, DEBIT	TEKSTIL PH, COD, TSS, NH3-N, DEBIT	TAMBANG NIKEL PH, TSS, DEBIT	KAWASAN INDUSTRI PH, COD, TSS, NH3-N, DEBIT

PPCI PEMALANG VALVE RETROFIT & CALLIBRATION



Retrofit of industrial valve actuators and calibration of pressure and flow sensors to improve process accuracy and efficiency.

INDONESIA ROYAL PAPER SPARING



The implementation of the Separating System aims to enable real-time and continuous online monitoring of wastewater quality data, which is directly reported to the Ministry of Environment. This initiative is part of our commitment to support government regulations and environmental sustainability, specifically in controlling and preventing water pollution through a more transparent and responsive monitoring infrastructure.

SPARING SYSTEM FOR MEDAN INDUSTRIAL ESTATE

Sparing System implementation for continuous online monitoring to the Ministry of Environment, as part of efforts to control water pollution.

Implementation of a Sparing System to enable real-time data transmission to the Ministry of Environment, supporting ongoing efforts in water pollution control and environmental compliance.



ONLINE MONITORING OF DISDROMETER DATA LOGGER & PRECIPITATION SENSOR - IN COLLABORATION WITH BRIN & KYOTO UNIVERSITY



In collaboration with BRIN (National Research and Innovation Agency) and Kyoto University, had the opportunity to develop an online precipitation monitoring system using disdrometer and precipitation sensors. This system is designed as an early preparedness measure to anticipate peatland fires in Riau, which are largely triggered by prolonged drought and insufficient rainfall. By providing real-time rainfall data, the system helps stakeholders respond faster and more effectively in preventing environmental disasters.

WATER QUALITY (LOKATEX PEKALONGAN)



A water quality monitoring system was developed for a textile manufacturing facility. The system ensures that wastewater parameters remain compliant with environmental standards while supporting eco-friendly production processes.

WATER QUALITY (KALREZ MALUKU)

A water quality monitoring system was installed at an oil and gas facility in Maluku. The system helps maintain compliance with environmental regulations and prevents potential water pollution around the operational site.



WHY CHOOSE US?



We have completed automation projects in sectors such as energy, manufacturing, utilities, and transportation—giving us deep insight into the needs of each system type.



Our systems are fully customized to meet client-specific needs, offering scalable and cost-efficient solutions without vendor lock-in.



We are known for our fast response time, whether on-site or remote. Our monitoring platforms also support remote diagnostics and maintenance in real-time.

WHAT MAKE US DIFFERENT?



HUMAN APPROACH

We focus not only on technology, but also on how automation affects people in real operations—ensuring systems are intuitive, practical, and user-friendly.



ON-SITE TEAM

Our technicians are ready for field installation, calibration, and troubleshooting to ensure smooth and efficient system rollout.



LEGACY INTEGRATION

We excel at integrating legacy systems with modern platforms—allowing seamless upgrades without operational disruption.

Portfolio Of **Project and Research**

- Revitalisasi & Digitalisasi Pabrik Gondorukem Perhutani Sapuran, Wonosobo, Jawa Tengah
- Water Gate Automatic Control System Sungai Tenggang & Sringin, Semarang, Jawa Tengah
- Digitalisasi Pembangkit Muara Pantoean, PLN Tarakan, Kalimantan Timur
- Water Treatement Monitoring PT. Daesang Food (Kawasan Industri Surya Cipta), Kerawang, Jawa Barat
- Control System Integration CNG, PT Energasindo Hexa Karya, Grobogan, Jawa Tengah
- Fire & Gas Safety System Logger for Perusahaan Gas Negara (PGN) East Java (Maincon CV Ren Usaha Mandiri)
- CO Data Logger for Berau Coal Site (Maincon PT. Teknokraft)
- Data Logger for Oil and Gas Industri, NPS, Jakarta
- SCADA system for NEW Yogyakarta International Airport, Jetec, Yogyakarta
- Fuel consumption monitoring , PLN Tello, Makassar.
- Tank Level Monitoring, PLN Tello, Makassar
- Flowmeter Monitoring, PLN Tello, Makassar
- Configuration Monitoring Online VT-SCADA, ULPLTG Tello, Makassar.
- Automation Lighting Control, Museum Sonobudoyo, Yogyakarta.
- Sparing System, Indonesia Royal Paper, Jombang.
- BRIN (Badan Riset & Inovasi Nasional) Online Data Logger Weather Station, Riau
- Sparing System, Kawasan Industri Medan, Sumatera Utara
- Crane Monitoring System, WIKA Konstruksi Beton, Citeureup, Bogor.



Portfolio Of **Project and Research**

- Sparing System, PT Loji Kanakatama Textile (Lokatex), Pekalongan, Jawa Tengah
- Sparing System, PT. Kalrez Petroleum (Seram), Maluku
- Four Season Hotel cont.rol system troubleshooting, Jakarta.
- Upgrade automatic cutting machine Setiak Kawan Teknik Ciputat.
- Reprograming PLC HMI Automatic Paving Block Machine Garuda Paving Banyuwangi.
- Trobleshooting PLC Booster Pump Roof Northland Ancol Apartement.
- Automatic Climatic & Walk-in Test Chamber PT Qlab Kinarya Sentosa.
- Automatic Energy Saver and Internet Monitoring Darsono Production.
- Auto Claved control system upgrade for PT Corin Mulia gemilang Sidoarjo
- Site Enggineering Upgrade Fire and Gas Detection System GTG GENP Pabrik 4, Pupuk Kaltim, Bontang , East Kalimantan
- for Main Con PT Wifgasindo Dinamika Instrument Engineering
- Victoria Square Apartement " Home Automation" engineering, Installation and Commisioning , Cimone, Tangerang, Banten.
- HMI engginering for Deluxe Safety Dryer, SGM Sarihusada, Yogyakarta for Main Con PT. Integra Automasi
- Site Engginering for Onshore Hontewll and O Shore Wonderware HMI Total E&P Senioah Est Kalimantan for Main Con
- PT Wifgasindo Dinamika Instrument Enggineering.
- PLC and HMI engineering for CIP line C project TFD315 Sari Husada, Yogyakarta for PT Intergra Automasi.
- HMI engineering for Dryer TFD 315 modification and comunication trobleshoot for PT. Intergra Automasi
- HMI Boiler reconfiguration after long term shutdown Sari Husada, Yogyakarta for PT. Intergra Automasi



Portfolio Of **Project and Research**

- PLC engineering for Control System Upgrade, PT Jati Luhur Agung, Semarang for PT Intergra Automasi.
- Automatic paving block machine development Garuda Paving , Banyuwangi.
- Pharmacy automation system development with Q-lab Kinarya Sentosa.
- SPAM control HMI and PLC modification, UNS, Surakarta.
- CIP Line from FMR Century replacement, SGM Sh2 Klaten.
- Mini Fuel Dispenser innovation for retail business.
- Website development for BorneoOrangutan.com
- Batching Plant Unit Retrovit, Riau Bumi Persada Beton, Dumai.
- SKK Migas Flow Meter Real Time Monitoring installation at Kalrez Petroleum Ltd
- SKK Migas Flow Meter Real Time Monitoring troubleshoot at Pertamina aset 3
- SKK Migas Flow Meter Real Time Monitoring troubleshoot at Pertamina aset 5
- SKK Migas Flow Meter Real Time Monitoring troubleshoot at VICO
- Power Monitoring & Building Automation Gedung Kedokteran UGM
- HMI retrofit Celaschi PT. Jatiluhur Agung Semarang.





Let's Connect With Us!



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