

REZA ISTONI

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+6281281428222 (WA)



LECTURER & SYSTEM DEVELOPER

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Current and Permanent Address: Bumi Sawangan Indah, B2-N0.9, Pengasinan-Depok

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## EDUCATION

Technical University of Malaysia Malacca (UTeM) PhD, UIPP(UTeM Indonesia PhD Programmed), On progress

Belgorod State Technological University (Russia) Master , Master Of Power Electrical Engineer, July 2014

The National Institute of Science and Technology of Jakarta (Indonesia) Bachelor of Electronica, July 2011

State Polytechnic Of Jakarta (Indonesia) Electronica Industry, July 2009

## PROJECTS

Control Oven Temperature (Final Project), June 2009

- I was designed and constructed an automation system temperature hardware and software.

Measure Corona Indicator, June 2009

- I was designed and constructed a corona measurement for high voltage system with LabVIEW

Control Speed of DC Motor, August 2010

- I was designed and constructed a system with PID Controller Method via LabVIEW.

Control Lamp Temperature (Final Project), June 2011

- I was designed and constructed an automation system temperature hardware and software.
- Determined the values of  $K_p$ ,  $K_i$ , and  $K_d$  from PID Controller with Fuzzy Logic via LabVIEW.

Measure Load's THD in case Russian Lamps , June 2014

- I was designed and constructed the hardware and software system for measurement.

The Roll, Pitch and Yaw Measurement used MPU6050 Sensor with Kalman Filter Estimator via LabVIEW 3D Interface, May 2015

- I was designed, calculated and constructed a software system for measurement

Control Speed of DC Motor with Linear Quadratic Gaussian Controller (LQG) via LabVIEW, July 2015

- I was designed, calculated, constructed and simulated the hardware and software system.

A PID Controller for PCB printer Temperature, July 2015

- I was designed, calculated, constructed and simulated the hardware and software system

The Arduino, Raspberry Pi2, and LabVIEW Communication Integration, July 2015

- I was designed, calculated, constructed and simulated a communication system for Arduino, Raspberry pi 2 and LabVIEW

Wireless X-Ray Panel Detector (Perkine Elmer) Installation at Dharmais Hospital, Nopember 2016.

- I was configure the network mode of panel detector.
- I was configure communication data of panel detector, to DICOM mode.

Flexisolve Datalogger add-ons for Shimadzu's GC to selection Materials from calibration file, September 2015.

- I was created software for extracted datalog file \*.txt calibration from GC solution directory to EXCEL reported template.

The Campbell CR1000 Datalogger and LabVIEW Communication Integration for Indonesia Meteorology, Climatology, and Geophysical Agency, July 2015

- I was designed and constructed a serial communication CR1000 datalogger
- I was designed and constructed a database system
- I was designed and constructed a web publisher interface for CR1000 datalogger
- I was designed and constructed GPRS system for CR1000 datalogger

Endoscopy Report System – EasyVIEW, Februari 2017

- I was design communication ERS to Endoscopy Camera
- I was created software ERS for captured, recorded, captured-recorded, and the results of ERS are PDF, \*AVI file, and \*PNG file.

Learned Module Modbus RTU Communication data use PowerLogic DM6000-Schneider, June 2017

- I was created software for readed map register of power logic Modbus RTU without OPC server.

Mass Flow Controller Gas Mix – Bandung Insitute of Technology , December 2017 (Under Flexisolve Technology)

- I was design communication 3 MFCs used ModbusRTU
- I was construct used static mixer 3 MFCs for N2, H2, CO
- I was construct piped for 3 MFCs
- I was designed, calculated, constructed and simulated a communication system used LabVIEW

Mass Flow Controller Gas Mix – NUS(National University Of Singapore)  
, February 2018 (Under Flexisolve Technology)

- I was designed communication 3 MFCs used ModbusRTU
- I was constructed used static mixer 3 MFCs for N2, H2, CO
- I was constructed piped for 3 MFCs
- I was designed, calculated, constructed and simulated a communication system used LabVIEW

Mass Flow Controller PLC Trigger – PMI (Philip Morris International) , February 2018 (Under Flexisolve Technology)

- I was designed communication 12 MFCs used ModbusRTU as slave to HMI
- I was constructed used Controllino for 12 MFCs O2
- I was constructed piped for 12 MFCs
- I was designed, calculated, constructed and simulated a communication system used LabVIEW

Gas Reactor- NTU(Nanyang Technological University), February 2018 (Under Flexisolve Technology)

- I was design communication all instrument controller (Bronkhorst MFC, Temp Controller)
- I was construct reactor panel
- I was construct piped for reactor
- I was designed, calculated, constructed and simulated a communication system used LabVIEW

Gas Reactor- Bandung Insitute of Technology, March 2018(Under Flexisolve Technology)

- I was designed communication all instrument controller (Bronkhorst MFC, Temp Controller)
- I was constructed reactor panel
- I was constructed piped for reactor
- I was designed, calculated, constructed and simulated a communication system used LabVIEW

Gas Booster- Flexisolve Tecnology Pte Ltd (R&D Product), February 2018 (Under Flexisolve Technology)

- I was designed communication all instrument controller (Solenoid Valve, Pressure Transmitter, Controllino Controller, Maximator Booster Pump)
- I was constructed gas booster panel
- I was constructed piped for gas booster

Autosampler Filled Weight Base Product - Flexisolve Tecnology Pte Ltd (R&D Product), March 2018 (Under Flexisolve Technology)

- I was designed communication all instrument controller (Cetac Teledyne Autosampler, Bronkhorst Coriflow, Kern Load Cell)
- I was constructed Autosampler Filled panel
- I was constructed piped for Autosampler Filled system
- I was designed, calculated, constructed and simulated a communication system used LabVIEW

Vacuum Automation System – Philips Morris International of Singapore (PMI), October 2018(Under Flexisolve Technology)

- I was designed hookup diagram system, and wired.
- I was program for embedded system and HMI panel
- I was designed Modbus RTU and TCP communication map for read and write M+W Mass Stream

Mass Flow Controller Gas Mix – NUS(National University Of Singapore)  
, February 2019 (Under Flexisolve Technology)

- I was designed communication 9 MFCs used ModbusRTU
- I was constructed used static mixer 9 MFCs for N2, H2, CO
- I was designed, calculated, constructed and simulated a communication system used LabVIEW

Server Mist Spray System – NTU(Nanyang Technological University)  
, May 2019 (Under Flexisolve Technology)

- I was designed communication for 3 Inverter, Energy Meters, Cori-flow, Analog Electric Valve
- I was designed, calculated, constructed and programmed a communication system used LabVIEW

Mass Flow Controller Gas Mix – NTU(Nanyang Technological University)  
(September 2019 (Under Flexisolve Technology)

- I was designed communication 9 MFCs used ModbusRTU
- I was constructed used static mixer 9 MFCs for N2, H2, CO
- I was designed, calculated, constructed and simulated a communication system used LabVIEW

Remote Energy Meter – Metal Industries Development Center , Bandung, Indonesia  
(September 2019)

- I was designed mapping register for several parameter from power meter
- I was programmed used Basic JAVA to convert Modbus RTU to REST API
- I was instructor to teach Modbus protocol and how to program Basic JAVA via Ewon Flexy 205

Low Speed Dosing System - PT. BMJ(Bukit Muria Jaya) Karawang  
(September 2020 (Under Flexisolve Technology)

- I was designed mapping register for several parameter from cori-flow, and inverter used Modbus RTU
- I was design algorithm control system (PID Tunning) and programmed the Siemens PLC and KTP100(HMI)
- I was program Profibus DP protocol as Slave to communicate to Honeywell DCS(Distributed Control System)

Cell Mixing System – CARES (Cambridge Centre for Advanced Research and Education in Singapore

(November 2020 ) (Under Flexisolve Technology)

- I was designed mapping register for several parameter from HPLC ECP2300
- I was programmed Modbus communication to configure Drago Remote IO
- I was determine and programed algorithm for sequencing operational used LabVIEW

Seals Quality Control – Flowserve Singapore (Changi)

(September 2021 ) (Under Flexisolve Technology)

- To determine the remote io for all transmitter and receiver
- To create database system for management customer
- To create algorithm for sequencing operational
- To integrate industrial equipment such as (MFC, Control Valve, Pressure Transmitter, and Temperature Tranducer)
- Testing of various communications protocol for all devices used Modbus RTU with Drago Remote IO.
- To Design and Development of user interfaces by LabVIEW

### Membrane Permeation System – NUS

(October 2021 ) (Under Flexisolve Technology)

- To determine the remote io for all transmitter and receiver
- To create datalogger for measurement
- To create algorithm for receipt sequencing operational
- To create configuration file (.ini) for setup limit parameter measurement
- To Integrate industrial equipment such as (MFC, Control Valve, Pressure Transmitter, and Temperature Transducers)
- Testing of various communications protocol for all devices used Modbus RTU with Drago Remote IO.
- To Design and Development of user interfaces by LabVIEW

### Seals Quality Control – Flowserve China (Suzhou)

(December 2021 ) (Under Flexisolve Technology)

- To determine the remote io for all transmitter and receiver
- To create database system for management customer
- To create algorithm for sequencing operational
- To integrate industrial equipment such as (MFC, Control Valve, Pressure Transmitter, and Temperature traducer)
- Testing of various communications protocol for all devices used Modbus RTU with Drago Remote IO.
- To Design and Development of user interfaces by LabVIEW

### Hollow Membrane Separation System – Divigas

(April 2022 ) (Under Flexisolve Technology)

- To determine the remote io for all transmitter and receiver
- To create datalogger for measurement
- To create algorithm for receipt sequencing operational
- To create configuration file (.ini) for setup limit parameter measurement
- To Integrate industrial equipment such as (MFC, Control Valve, Pressure Transmitter, and Temperature Transducers and Mermmert Thermal Oven)
- Testing of various communications protocol for all devices used Modbus RTU with Drago Remote IO and REST API for Mermmert Thermal Oven.
- To Design and Development of user interfaces by LabVIEW

### Total Dissolved Solid and Total Suspended Solid for water sample – PUB (On Going) (Under Flexisolve Technology)

- To Develop and design of test software for concept proving
- To integrate industrial equipment such as (ABB robot, Syringe Pump, Vacuum Pump, Solenoid, Mettler Load Cell and Flowmeter, Keyence Barcode Scanner)
- Testing of various communications protocol for all devices used (Modbus, Open Protocol (ASCII Base), Ethernet/IP)
- Development of programming logic with Keyence PLC
- To integrate Keyence PLC with OPC via KV Protocol
- To Design and Development of user interfaces
- Software commissioning and debugging

Design and development for Air conditioner of EV bus control system– University of Indonesia July 2022 (Under ARWITO Indonesia Technology)

- HMI design of head unit device, motor control (compressor, evaporator and condenser) and sensors reading
- CAN Bus and algorithm implementation on RTOS Programming
- Implementing low-wattage system on air conditioner on both compressor
- Commissioning and Debugging on both hardware and software

## WORK EXPERIENCE

Andakara Indonesia, Jakarta  
Lecturer, May 2010 - July 2010

- Delivered knowledge for the digital technic and DC motor subject.

IBM Indonesia - JTI Indonesia, Jakarta  
Jr Service Engineer, April 2010 – April 2011

- Installation, maintenance and problem solved for ATM/CDM Machine

State Polytechnic of Jakarta Depok  
Assistant Trainer, August 2010

- Delivered knowledge for LabVIEW programmed to participants of Centre for Research and Development of Electricity and Renewable Energy Technology (Ministry of Energy and Mineral Resources)

State Polytechnic of Jakarta Depok  
Trainer

- Delivered knowledge for LabVIEW programmed to researchers of Meteorology Climatology and Geophysics Council of Indonesia (BMKG)
- Delivered knowledge for LabVIEW programmed to researchers of National Institute of Aeronautics and Space (LAPAN)- Satellite Div

State Polytechnic of Jakarta Indonesia, Depok  
Assistant Lecturer, January 2015 – Now

- Delivered knowledge for computer- based measurement and control, database programmed and Embedded System Subject

IZADA Islamic School Indonesia, Bintaro  
Trainer, July 2015 – September 2015

- Delivered knowledge for Lego robotic to IZADA senior and junior high school with LabVIEW (for maze solved and sumo categories). The result was a winner at national level at SMU 28 Jakarta, for maze solving (senior high school) category.

Flexisolve Technology Indonesia-Singapore – R&D  
Engineer, August 2015 – Now (Part Timer)

- I was developed software and hardware for pre-processing measurement system for scientific and analytic Instrument like GC, FTIR, and etc.

UNSADA(Dharma Persada University) Indonesia, Depok  
Lecturer, January 2018 – Now

- Delivered knowledge for the electrical subject.

## SKILLS

Operating Systems: Windows, Raspbian (Linux)

Software: Microsoft Office, DXP 2004, Multisim, IDE Arduino, DIAdem, Proteus, STM32Cube IDE.

System Development : LabVIEW (Certified/CLAD - 2017), C++, C, Python

Database : MySQL

Languages: Fluent in Russian; and Passive in English language

Hardware : Arduino, STM32F407VG-ARM, Data Acquisition 6251, Sbrio 9636/9637, MyRIO 9500, NodeMCU 8266, Powerlogic DM6200, NuDAM Data Acquisition, Compact RIO(FPGA), PLC (Programmable Logic Control).

## ACTIVITIES & HONORS

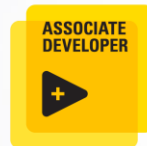
- Member of Student Executive of State Polytechnic of Jakarta , 2006-2007.
- Member of Merpati Putih Martial Arts, 2003-Now.
- The best magister student with “Honours Standing” predicate at - Belgorod State Technological University (Russia), July 2014
- Participant for DCS Water Treatment system used Valmet products at PNJ(5 Days).2016
- Participant for Nnetworked Water Treatment system used OPManager (ManageEngine) at PNJ(3 Days).2017
- Participant of LabVIEW core 1 and 2 from National Instrument Indonesia at PNJ(5 Days).2016
- Instructor for PCB design used Proteus for Pengabdian Masyarakat program from PNJ at SMK Putera Negara Jonggol (3 Days).2016
- Certified LabVIEW Associate Developer (CLAD) – International Scale (2017)

Serial Number: 100-317-20020  
Issue Date: 6/9/2017  
Expiration Date: 6/8/2019

NI CUSTOMER EDUCATION  
**Certification**

# Reza Istoni

Has successfully completed all requirements and is now granted the title of:



Certified LabVIEW  
Associate Developer  
National Instruments

A handwritten signature in black ink, appearing to read "Alex Davern", positioned above a horizontal line.

Alex Davern  
President and CEO  
National Instruments