

Andi Syahputra

PLC and DCS Automation Engineer

Bireuen, Indonesia · [linkedin.com/in/andi-syahputra-automation](https://www.linkedin.com/in/andi-syahputra-automation)

SUMMARY

Experienced Automation Engineer specialising in industrial automation, DCS and PLC systems. Maintain, troubleshoot and commission Siemens, Yokogawa and ABB platforms. Service Capstone microturbine and operate SCADA systems. Enhance system durability and team capabilities through training.

SKILLS

Skills: ABB DCS AC 800, Centum VP, DCS Supcon ECS 700, Capstone Microturbine, TIA Portal, Studio 5000/Factory Talk View, SCADA Software monitoring, KepServer, Modbus RTU/TCP, VFD or VSD, AutoCad, FreeCad 3D Modeling

PROJECTS

Installation and Commissioning Capstone turbine C200, PHE ONWJ, Offshore, Indonesia

- Installed and commissioned Capstone C200 turbine, using Allen Bradley L30ER for control and monitoring.
- Configured ATS between generator set and Capstone turbine for automatic power transfer.
- Applied VFD on blower motor to prevent high inrush current from UPS during black start.

VFD application on blower motor, PHE WMO, Offshore, Indonesia

- Perform additional VSD for 2 fan blower at capstone C65 that using for purging during initial start, the power for 2 fan blower take from UPS and modify logic for just 1 blower start during initial start and blower 2 will start when turbine produce power.

Installation, precommissioning, Commissioning of Capstone turbine 2 x C65, PHEWMO 38B

- Perform Installation, Commissioning, and start up of 2 x C65 using Allen Bradley PLC L30ER to control and monitor turbine data
- SCADA Monitoring using Modbus Data to Indusoft V8.1, DRUPS (Diesel Rotary UPS) , Tanjung Tabalong KALSEL, Indonesia

Integration of modbus data from DRUPS to Indusoft software, Tanjung Tabalong KALSEL, Indonesia

- Integrated Modbus data from DRUPS parameters at switchgear into Indusoft software for remote monitoring.

Capstone Microturbine 2 x C65 Engine Replacement, JOB Pertamina Talisman Jambi Merang,

- Engine exchange after 5 years operational and start up after replacement

Capstone Microturbine C1000 Cogeneration (cooling) Installation, precommissioning and

- Perform Installation of Capstone turbine C1000
- Perform Commissioning and start up of Capstone turbine C1000
- Perform troubleshooting of Capstone turbine C1000

Capstone Microturbine C800 Installation, precommissioning and commissioning, Kubic Gasco,

- Perform Installation of Capstone turbine C800
- Perform Commissioning and start up of Capstone turbine C800
- Perform troubleshooting of Capstone turbine C800

SCADA Maintenance PG&T Project, Chevron Pacific Indonesia, Duri, Riau, Indonesia

- Perform troubleshooting of recloser, KWH meter reading, RTU Foxboro
- Perform troubleshooting of network that cannot monitor from SCADA

Capstone Microturbine C65 Installation, precommissioning and commissioning, Kepodang Gas

- Capstone Turbine C65 Installation at client site.
- Perform Precommissioning, Commissioning, and start up of Capstone turbine C65
- Perform troubleshooting for Capstone turbine C65

DCS Preventive Maintenance Project, Chevron Pacific Indonesia, Duri, Riau, Indonesia

- Perform DCS Maintenance at Chevron area in duri and minas Site.
- Perform troubleshooting of Instrument system for flow, temperature, Level, and pressure
- Perform Instrument equipment Installation for additional device.

Precommissioning and commissioning of Tissue Machine especially for DCS, Block 2 and Block 4,

- Installation of DCS panel, hardware, workplace computer and network integration to the system.
- Designs, programs, and upgrades the control system architecture.
- Programs DCS logic, HMIs, and SCADA systems
- Troubleshoots software and hardware.

EXPERIENCE

Automation Engineer · PT Obi Nickel Cobalt (ONC)

06/2024 - Present

Halmahera Selatan, Indonesia

- Executed preventive maintenance on DCS and PLC systems, including Supcon DCS ECS 700 and Siemens PLC S7-1200, S7-1500, and S7-200 Smart.
- Improved durability and availability of field-installed PLC systems through targeted enhancements.
- Executed splicing of fibre optic cables for DCS integration, ensuring connection of all domain systems to DCS Server.
- Created training kits for automation team, increasing skills and knowledge retention.

Senior Service Engineer · PT Serba Dinamik Indonesia

07/2018 - 08/2023

Jakarta, Indonesia

- Executed Capstone turbine installation, pre-commissioning, and commissioning projects, ensuring successful deployment and operation.
- Delivered expert service and troubleshooting for Capstone Turbine units at customer sites.
- Oversaw Capstone turbine units across Indonesia, ensuring optimal performance and reliability.
- Directed client service operations to ensure timely support delivery.

Service Engineer · PT Serba Dinamik Indonesia

07/2013 - 06/2018

Jakarta, Indonesia

- Provided on-site service and troubleshooting for Capstone Turbine units.
- Lead projects involving Capstone Turbine installation, pre-commissioning, and commissioning.
- Oversaw management of Capstone turbine units across Indonesia, ensuring optimal performance and reliability.
- Coordinated SCADA Master project for PGT Chevron Pacific Indonesia, enhancing system integration and operational efficiency.
- Performed maintenance on reclosers, Foxboro RTUs, fibre optics, disturbance recorders, and Barco Wall Displays, ensuring operational integrity and system reliability.

DCS Engineer · PT. Serba Dinamik Indonesia

10/2012 - 06/2013

Duri, Riau, Indonesia

- Diagnosed and resolved Yokogawa DCS issues through thorough program verification and analysis, enhancing system reliability.
- Executed preventive maintenance on Distributed Control Systems (DCS) to ensure optimal system performance at Chevron Pacific Indonesia.
- Coordinated with Chevron engineers and technicians to clarify job scope and improve execution efficiency.

Automation Engineer · PT. Pindo Deli Pulp and Paper

09/2006 - 07/2012

Perawang, Riau, Indonesia

- Developed and modified programs for enhanced control of 800xA system.
- Maintained 800xA system, ensuring server and workplace computers operated effectively.
- Oversaw OPC Server maintenance for ABB Smartclient DA and HDA.
- Conducted maintenance on QCS systems to ensure operational efficiency for both server and Smart Platform components.
- Installed communication systems and commissioned fibre optic communication systems to improve connectivity.

EDUCATION

Bachelor's Degree of Electrical Engineering, High Voltage Engineering

North Sumatra University (USU), Medan, Indonesia

06/2006

CERTIFICATIONS

Refresh training of TBosiet and Travel Safely by Boat

Samson Tiara, 2022

Refresh training of TBosiet and Travel Safely by Boat

Samson Tiara, 2019

Capstone C1000 Controller ASP Certification Course

Capstone Corporation, 2018

Capstone C200 ASP Certification Course

Capstone Corporation, 2018

Capstone C1000 Power Sync Controller Training

Capstone Corporation, 2018

Application Training of Capstone Turbine

Capstone Corporation, 2018

TBosiet and EBS Training with OPITO Approved

Samson Tiara, 2015

Capstone C65 ASP Certification Course

Capstone Corporation, 2013

Capstone Hazloc ASP Certification Course

Capstone Corporation, 2013

Experion-2001 EPKS CEE C200/300 Implementation (R400)

Honeywell Engineering Sdn Bhd, 2012

Yokogawa DCS with Centum VP

Yokogawa Indonesia, 2011

C232 - Smart Platform With QCS LAN

ABB Pte Ltd, 2011

SG732 - Network Platform with QCS LAN

ABB Pte Ltd, 2011

C302 - Maintaining an Industrial IT Quality Control System with AC800M

ABB Pte Ltd, 2011

T315 - System 800xA Engineering

ABB Pte Ltd, 2009

PLC V-Series Engineering Tool 2 and Citect SCADA

2009

LANGUAGES

- English (Advanced)