SEGMIC ENGINEERING

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PROJECT REGISTER

Commissioned projects

32 projects · UAE, Saudi Arabia and Qatar

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P-05 Dubai Canal Waterfall

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Infrastructure	Retrofit	—

SCOPE OF WORK

Scope involved reprogramming and redesigning the HMI at the station to control DMX waterfall lights via ArtNet based on predefined settings. It also included controlling 80 water pumps and implementing a curtain-like waterfall opening sequence triggered by yacht approach.

P-07 Fire Hydrant Monitoring & Irrigation Control System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Ajman, UAE	Infrastructure, Utilities	Retrofit	—

SCOPE OF WORK

Scope involves programming a control system to monitor the status of the fire hydrants across the city and control the irrigation controllers based on the fire condition.

P-01 Top Drive Condition Monitoring System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Oil & Gas	New system	—

SCOPE OF WORK

Scope included interfacing with a vibration analysis system using OPC UA and an oil quality monitoring system via Modbus TCP. Tasks involved acquiring and processing velocity and acceleration data to evaluate machine vibration conditions, configuring alarm logic based on set thresholds, and developing a web-based HMI for real-time monitoring at the operator station.

P-02 Automated Pipe Transport System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Al Jubail, Saudi Arabia	Process Industry, Warehouse Automation	Retrofit	Weintek

SCOPE OF WORK

Scope involved reprogramming the control system to integrate automatic, semi-automatic, and manual sequences for operating two transport carts and a roller conveyor. It also included developing an additional HMI for the control room, establishing communication with external PLCs via EtherCAT, and implementing safety functions.

P-03 Smart Solar Charging System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Energy	New system	—

SCOPE OF WORK

Scope involved offline programming of a solar charging system comprising two processes: charging and discharging. The charging process includes four modes. System monitoring and control are provided through a mini display featuring menus for live values, operating modes, system information, user-defined setpoints, and alarms. An HMI page without target visualization was also developed for potential future integration.

P-04

Motor Management Monitoring System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Oil & Gas	New system	—

SCOPE OF WORK

Scope involved collecting data via Modbus RTU from 55 Siemens simocode protection devices and transmit the data via IEC 61850 to master PC along with a feature to save the data periodically as a CSV document.

P-09

Cement Bag Filling Machine

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Process Industry	Retrofit	—

SCOPE OF WORK

Scope involved designing an IP65-rated enclosure housing a precision control system for bag filling machines, enabling control of existing field devices such as push buttons, emergency stop, motors, cylinders, proximity sensors, load cell, and cement valve. The system included a real-time display for weight monitoring and precise target value control. Work also included offline programming, system engineering, commissioning, and delivery of detailed wiring diagrams and schematics.

P-10

Panic Alarm System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Building Technologies	Retrofit	—

SCOPE OF WORK

Scope involves reprogramming a system to control and monitor the panic button system in the hotel for prompt response.

P-11

Lighting and HVAC Control System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Building Technologies	Retrofit	—

SCOPE OF WORK

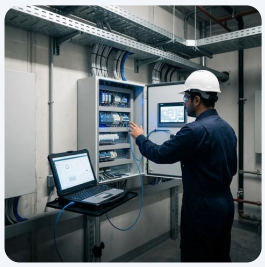
Scope involves reprogramming a system to control lighting (via DALI and EnOcean) and HVAC (Modbus RTU) along with energy monitoring and BACnet integration for future expansion.

P-12 Lighting & HVAC PLC Commissioning — Office Building

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Building Technologies	Retrofit	—

SCOPE OF WORK

Installation, Offline Programming, Testing, and Commissioning of PLC in Level 2 Core A – 1 Nos. Scheduling all the devices as per the current sequence of operation. One HMI unit calibration.



P-13 Condition Monitoring System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Process Industry	New system	—

SCOPE OF WORK

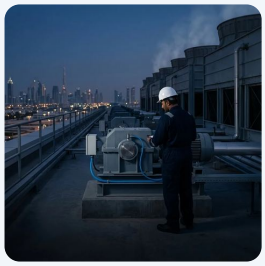
Scope included interfacing with a vibration analysis system using OPC UA and an oil quality monitoring system via Modbus TCP. Tasks involved acquiring and processing velocity and acceleration data to evaluate machine vibration conditions, configuring alarm logic based on set thresholds, and developing a web-based HMI for real-time monitoring at the CMS station.

P-14 Cooling Tower Condition Monitoring System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Building Technologies	New system	—

SCOPE OF WORK

Scope included interfacing with a vibration analysis system using OPC UA and an oil quality monitoring system via Modbus TCP. Tasks involved acquiring and processing velocity and acceleration data to evaluate machine vibration conditions, configuring alarm logic based on set thresholds, and developing a web-based HMI for real-time monitoring at the CMS station.



P-15

Condition Monitoring System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Fujairah, UAE	Process Industry	New system	—

SCOPE OF WORK

Scope included acquiring and processing velocity and acceleration data to evaluate machine vibration conditions, configuring alarm logic based on set thresholds, and developing a HMI for real-time monitoring for local monitoring and integration with DCS system via Profibus DP.

P-16

MDF Cutting Machine Drive & Encoder Recalibration

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Process Industry	Support	Siemens

SCOPE OF WORK

Supported for Reprogramming the VFD with updated parameters to align with the machine's mechanical load and calibrating the encoder to adjust the machine's movement.

P-17

BMS Alert System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Building Technologies	Support	—

SCOPE OF WORK

Scope involved reprogramming for the chiller HMI system (BMS control and Level 2 SMS alert system) with the SMS alert configuration.

P-18

Building Management System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Building Technologies	Retrofit	—

SCOPE OF WORK

Scope involved reprogramming for the AHU and FAHU monitoring system and reconfiguration of the lighting and Room HVAC System.

P-20 HVAC System for Lab

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Building Technologies, Healthcare	Retrofit	—

SCOPE OF WORK

PLC & HMI system for monitoring and controlling the existing HVAC system that containing the following devices [70 VAVs, 23 Temperature sensors, 20 Differential pressure sensors, 3 Dampers, 2 Fume hood (Toxic and Normal), 2 Heaters (Modulating and Digital)] with Areas layouts and piping drawing as per the existing sequence of operation.

P-21 Early Alarm Monitoring System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Riyadh, Saudi Arabia	Infrastructure	New system	—

SCOPE OF WORK

Offline programming to read alarm output from Alarm panel and send to an existing external monitoring platform via HTTPS/REST including 1 day remote support per panel.

P-22 BMS Annual Maintenance Contract — Hotel

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Building Technologies	Retrofit	—

SCOPE OF WORK

Annual maintenance Contract of Building Management System (BMS) comprising of Quarterly Scheduled visits and 20 On-Call visit for routine diagnostics.

P-23 Energy Monitoring System with IoT Integration

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Building Technologies	New system	—

SCOPE OF WORK

Offline programming to retrieve energy data for 5 lines from energy meters and send the data to IoT platform via HTTP/REST API integration along with monitoring the personel presence in the room (15 rooms) to power on/off the machine in that room.

P-24 BMS Technical Support

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Doha, Qatar	Building Technologies	Retrofit	—

SCOPE OF WORK

Inspect existing controllers, couplers, and I/O modules to diagnose miscommunication between the PLC and Movicon SCADA, identified probable causes and compile a detailed report with observations and a recommended solution to rectify the issue.

P-25 Industrial PC Hardening (14 Panel PCs)

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Energy	Support	—

SCOPE OF WORK

Engineering support of Panel PC. Hardening and Installation includes:

- BIOS Configuration and Windows Installation (Windows components, Drivers, Services, Settings, Network and Internet settings, Security Policy, User Accounts and Groups, Registry Settings, User Group Policy, Local Group Policy, Software Installation) Hardening Documentation.
- Creating a Manual for Hardening and installations.

P-26 Private Villa Lighting & Curtain Control

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Building Technologies	New system	—

SCOPE OF WORK

Programming and commissioning of Lighting and curtain control system using PLC to match the existing operation. The overall site is divided into three floors. Each floor consists of a DDC panel with a PLC and terminals that control the spot lights over DALI with dimming features. ambient and chandelier lights, blinds and curtain motors, and motion sensors. The PLC receives input from the Berker 8ch Touch Panel, and the lights and motors are directly connected to the PLC output.

P-27 MQTT Server Integration Support

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Sharjah, UAE	Building Technologies	New system	—

SCOPE OF WORK

Provide assistance with sending generated data by the existing PLC in two packets (One for Analog Data and One for Digital Data) to the cloud using MQTT. The packets will consist of 31 Digital and 28 Analog Data points. The Digital Data will be sent whenever there's a change in the data, while Analog data will be sent every 15 minutes.

P-28 Standalone Thermostat Integration — Hotel

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Building Technologies	New system	—

SCOPE OF WORK

Engineering Integrating and programming and commissioning thermostats standalone from existing controller - without thermostat wiring and installation.

P-29 Private Villa Home Automation (Lighting & HVAC)

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Building Technologies	Retrofit	—

SCOPE OF WORK

PLC Programming and commissioning of Lighting and HVAC control system using PLC to match the existing operation. The overall site is divided into four floors (Basement, Ground, First and Roof). Each floor consists of a DDC panel with a PLC and terminals that control the lights and touchpad over DALI with dimming features and KNX.ambient and chandelier lights, blinds and curtain motors, and motion sensors. HMI designing and commissioning of Lighting and HVAC control system using the control panel to match the existing operation. Control panels are located in Basement and First floor. Reverse Engineering to determine the existing sequence of operation.

P-30 Allen-Bradley SLC 500 Control System Retrofit

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Building Technologies, Utilities	Retrofit	Allen-Bradley

SCOPE OF WORK

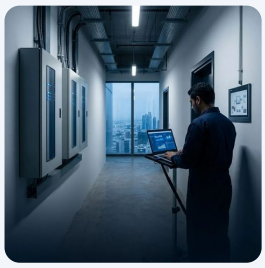
Offline programming, testing and commissioning for Allen Bradley PLC to rectify operation of pump 3 and Replacement and reprogramming of Kingfisher RTU PLC with new PLC modules along with replacement and reconfiguration of the HMI.

P-31 BMS Commissioning — Office Building (Level 6)

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Building Technologies	Retrofit	—

SCOPE OF WORK

Installation, Offline Programming, Testing, and Commissioning of PLC in Level 6 – 2 Nos. Scheduling all the devices as per the current sequence of operation. Two HMI unit calibration.



P-32

BMS Commissioning — Office Building (Level 2)

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Abu Dhabi, UAE	Building Technologies	Retrofit	—

SCOPE OF WORK

Installation, Offline Programming, Testing, and Commissioning of PLC in Level 2 Core A – 1 Nos. Scheduling all the devices as per the current sequence of operation. One HMI unit calibration.

P-33

Siemens HMI Service

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Dubai, UAE	Process Industry	Support	Siemens

SCOPE OF WORK

Supply, Installation & Configuration of Siemens KTP700 HMI (Model: 6AV2123-2GA03-0AX0).

P-34

Fuel Tank Monitoring System

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Riyadh, Saudi Arabia	Energy, Oil & Gas	New system	—

SCOPE OF WORK

Offline programming for a system includes four control panels: one main panel and three slave panels. It is designed to manage pump operations for fuel forwarding and unloading while monitoring various sensor signals as per the received SOW. Offline HMI development for 4 screens to control and monitor pump operations for fuel forwarding and unloading along with monitoring of fuel level in all tanks with alarm logger as per the received SOW. Full Documentations, wiring layout including single line diagrams, panel diagrams, load schedule calculations, and user manual for all the control system.

P-35

Conveyor Belt System for Glass

LOCATION	INDUSTRY	SOLUTION TYPE	BRANDS
Ras Al Khaimah, UAE	Process Industry, Warehouse Automation	Retrofit	—

SCOPE OF WORK

Supply and programming of a control system for a glass conveyor belt system. Includes the following support:

- Programming & Commissioning of the entire system
- HMI designing & configuration with the conveyor belt system
- The required software licenses
- Documentations, manual, and drawings.