

From Physical Execution to Intelligent Operations.

MargaFlow integrates industrial automation, intralogistics, IIoT, Digital Twin and AI-enabled operational intelligence for UAE and GCC industrial projects.

Warehouse Automation | Industrial Automation | Digital Operations



Who We Are

End-to-end automation and digital transformation partner.

MargaFlow System Integration FZ LLC is a Dubai-based industrial automation and digital transformation company supporting automation and industrial technology projects across the UAE and GCC.

11+ years average core-team experience

Practical Site Execution

HSE, quality, supervision and schedule discipline.

Scalable Engineering

From presales and design to startup and support.

Data-Driven Operations

IIoT, dashboards, connected assets and analytics.

Long-Term Partnership

Support models beyond handover and stabilization.

End-to-End Delivery Capability

One engineering partner across physical execution, controls and digital enablement.

01 Mechanical Execution

Racking, conveyors, lifts, shuttles, stacker cranes, alignment and site supervision.

02 Electrical Installation

Cable tray, cable pulling, panel installation, field wiring, VFDs, sensors and network cabling.

03 Automation Software

PLC programming, HMI/SCADA, WCS/WMS interfaces, middleware, databases and APIs.

04 Commissioning & Startup

I/O checks, loop testing, FAT/SAT support, functional testing and stabilization.

05 Connected Operations

IIoT connectivity, OPC UA, MQTT, edge connectivity, dashboards and cloud/edge integration.

06 Digital Intelligence

Digital Twin, simulation, AI integration and operational decision support.

Understand -> Engineer -> Execute -> Integrate -> Commission -> Connect -> Optimize

Warehouse Automation & Intralogistics

Execution, integration and support for modern material-flow systems.



Physical Systems

AS/RS, stacker cranes, shuttle systems, pallet lifts, conveyors, racking and safety fencing.

Controls & Integration

WCS/WMS interfaces, scanner, sensor, drive and PLC interfaces, diagnostics and testing.

Business Outcomes

Higher throughput, reduced manual handling, improved traceability, faster issue recovery and scalable expansion.

Process Automation & Industrial Controls

From field instruments to reliable PLC/SCADA-driven operations.

PLC & Process Control

Sequencing, interlocks, permissives, alarms, recipes, batch control and equipment interfaces.

HMI / SCADA

Operator screens, alarms, trends, reports, diagnostics and actionable visibility.

Instrumentation & Drives

Sensors, valves, pumps, motors, VFDs and industrial network communication.

Commissioning

Loop checks, functional testing, cold/hot commissioning, SAT and performance stabilization.



Typical applications: batch mixing, CIP, filling & packaging, process skids, utilities, machine upgrades, recipe management and data logging.

Industrial Automation Software Engineering

Controls, visualization, interfaces and data connectivity.

01 Siemens Automation

S7-1500, S7-1200, TIA Portal and Profinet.

03 Industrial Integration

OPC UA, MQTT, APIs and database connectivity.

05 Middleware & Reporting

Operational dashboards, reports, alarms, logs and actionable production data.

02 HMI / SCADA

WinCC, Ignition, Wonderware / AVEVA.

04 WCS/WMS Interfaces

Data exchange, task flow and system status integration.

06 Maintainable Delivery

Structured code, diagnostics, documentation and handover-focused engineering.

Software Scope

PLC
Programming
HMI / SCADA
WCS/WMS
Middleware
Database
IIoT & APIs

IIoT & Connected Operations

From machine data to operational visibility.



Machines & Sensors

Industrial machines, sensors, process signals and environmental data.

PLC / Edge Gateway

Data collection, protocol conversion, local processing and secure edge connectivity.

Data Platform

Storage, normalization, device management and API integration services.

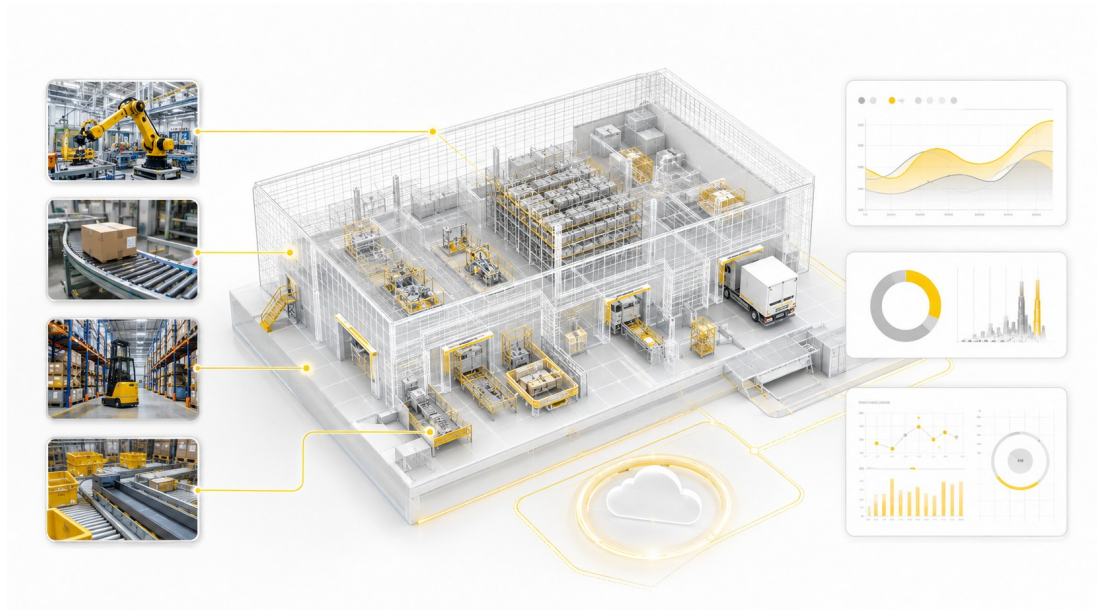
Dashboards & Analytics

Real-time dashboards, alerts, KPI analysis, reports and insights.

Business benefits: visibility, traceability, faster response and better utilization.

Digital Twin & AI Integration

Simulate, validate and support smarter operational decisions.



Digital Twin

Virtual commissioning, process simulation, scenario planning, performance comparison and operator training.

AI Integration

Leading AI platforms connected to operational data for analysis, reporting, troubleshooting and decision support.

Positioning Note

MargaFlow focuses on practical AI integration and operational intelligence. We do not claim proprietary predictive-maintenance ML models unless specifically developed and validated for a project.

Selected Team Experience

Anonymous references from previous professional engagements of team members.

Global E-Commerce Fulfilment Environment

Automated material-flow systems, conveyors, sortation, warehouse controls and site support.

Large Automated Distribution Centre

AS/RS, shuttles, pallet handling, PLC interfaces, diagnostics and commissioning support.

Major GCC F&B Manufacturer

Process automation, SCADA, instrumentation, utilities, packaging and production support.

Industrial Process Environment

Batch control, recipe management, alarms, reports and equipment integration.

System Integrator / OEM Projects

Turnkey interfaces, FAT/SAT, installation coordination and handover readiness.

Automation Domains

AS/RS, shuttles, conveyors, PLC/SCADA, IIoT, dashboards and lifecycle support.

Note: These references represent previous professional exposure of MargaFlow team members and are not presented as contracts executed by MargaFlow.

Why MargaFlow

Execution capability + automation depth + digital transformation expertise.

1 Site Execution Capability

Mechanical, electrical, commissioning and stabilization support under one coordinated engineering approach.

2 Automation Engineering Depth

PLC, SCADA, process control, WCS/WMS interfaces and maintainable software delivery.

3 Physical + Digital Capability

Automation, IIoT, Digital Twin and AI integration combined into one operational story.

4 Dubai-Based GCC Support

Local responsiveness, flexible engagement models and lifecycle support across the UAE and GCC.

Engagement Models

- Turnkey Work Packages
- Specialist Engineering
- Commissioning Support
- Modernization Projects
- Maintenance & Lifecycle Support

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