



WHERE VISION BECOME REALITY



Custom hardware and automation for demanding industries

Engineering custom hardware and automation systems that help hospitals and industrial companies improve testing, monitoring, and control.
Global-standard engineering with the agility of a local partner



Talk to an Engineer

View our solutions

Who We are

We are a team of engineers and researchers designing custom hardware and automation systems for hospitals and industrial companies. Our team includes PhD-level experts from leading Egyptian universities with experience in mission-critical and highly regulated environments, building test, measurement, and monitoring solutions that meet global standards while staying fast and accessible as your local R&D partner.

We Think Divergently. Create Convergently

Mechanical design

3D-modeled housings and fixtures optimized for manufacturing and service.

Electronics & PCB design

High-reliability boards developed with EMC, safety, and long-term availability in mind.

Embedded systems & firmware

PIC, ATMEGA, STM32-based controllers, real-time control, data acquisition, and communication stacks.

Industrial automation & PLC

Integration with PLCs, sensors, and actuators for production and lab environments.

NI-based test & measurement systems

Certified LabVIEW developers with diverse experience in DAQ, real-time and FPGA

Machine vision solutions

Inspection and detection systems using industrial cameras, lighting, and NI- or PC-based processing, with optional PLC integration through OPC servers.

Python, AI & test integration

Python and AI integrated with NI systems, PLCs, and embedded controllers to add intelligent analysis and automation to test setups.

Standards & compliance

Designs aligned with international standards and critical-environment requirements.



Medical Devices

Development of hospital infrastructure products such as Operating Room Control Panels and Medical Gas Area Monitoring Systems, designed as per international standards

Industrial Automation

Custom hardware and software integration for measurement, control, and automation systems using platforms like PLC, STM32, and LabVIEW



Product Development Services

From concept to prototype, including mechanical design, PCB design, firmware, software, and GUI, providing comprehensive development solutions

Measurement Systems

Design and implementation of both standalone and PC-based measurement systems, focusing on real-time data acquisition and analysis capabilities

Our philosophy

At Innovergent, engineering means turning real needs into reliable, real-world systems.

We explore widely

We think divergently and consider multiple options before committing to a solution.

We build cohesively

We combine mechanical, electronic, and software expertise into one functional system.

We stay practical.

We favor clarity over complexity and steady progress over perfection.

We deliver confidence in what local innovation can do.

Our Mission

To design, develop, and deliver locally engineered solutions for critical environments. We combine innovation with practicality to serve medical, industrial, and research sectors, empowering local industries with alternatives that meet global standards and reduce import dependency.

Our Vision

To be a leading local R&D company, recognized for reliable engineering solutions and trusted partnerships. We aim to grow world-class products and talent that shape the future of local innovation.

OR Maestro (Innovergent OR Control panel)

Lighting Control

Ability to control and dim the four lighting groups separately for optimal visibility during surgeries

Temperature Control

Monitor ambient temperature, humidity, and differential pressure with alarm settings for each parameter

Audio Control

Built-in MP3 player with volume controls for a calm environment during operations

Measurement Log

OR Maestro includes a powerful Measurement Log feature that records any user-selected parameters each at its own sampling rate and stores them securely in a database. This enables effortless data retrieval, trend analysis, and export for documentation or quality audits



Unmissable Anesthesia Awareness

Our large, clear countdown timer with a visual progress bar and two-step audible alarm ensures the surgical team is never caught off guard, enhancing patient safety and procedural flow

Gas Monitoring

Gas pressure level monitoring for five different medical gases with visual and audible alarms for safety

User-Specified Modes

A single click configures all room settings - outputs, audio, and visual - Instantly matching any procedure or user preferences

Custom I/O Integration

Orchestrate every element-from simple sensors to complex Modbus devices-in a perfectly synchronized, fully customizable system

Medical Gases Area Monitor



Precise Sensors

Features precise German-made sensors that ensure accurate and reliable measurements.

Robust Enclosure

Constructed with a robust powder-coated steel enclosure, ensuring durability and compliance with medical grade standards.

Modbus RTU

Utilizes Modbus RTU communication for seamless integration with existing hospital systems, enhancing operational efficiency.

Real-Time Readings

Provides real-time pressure readings, enabling immediate response to any fluctuations in the gas supply for patient safety.

Touchscreen Control

Equipped with a touchscreen interface for intuitive control, allowing for clear visualization and easy navigation of settings.

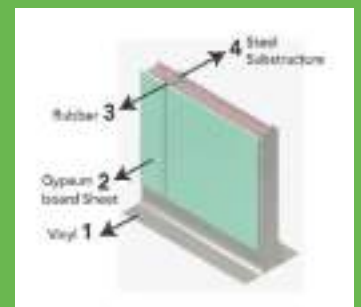
Sustainable Design

Designed and assembled with over %80 locally manufactured components, promoting reliability and sustainability in production.

WALLS SYSTEM

Stainless steel wall panel

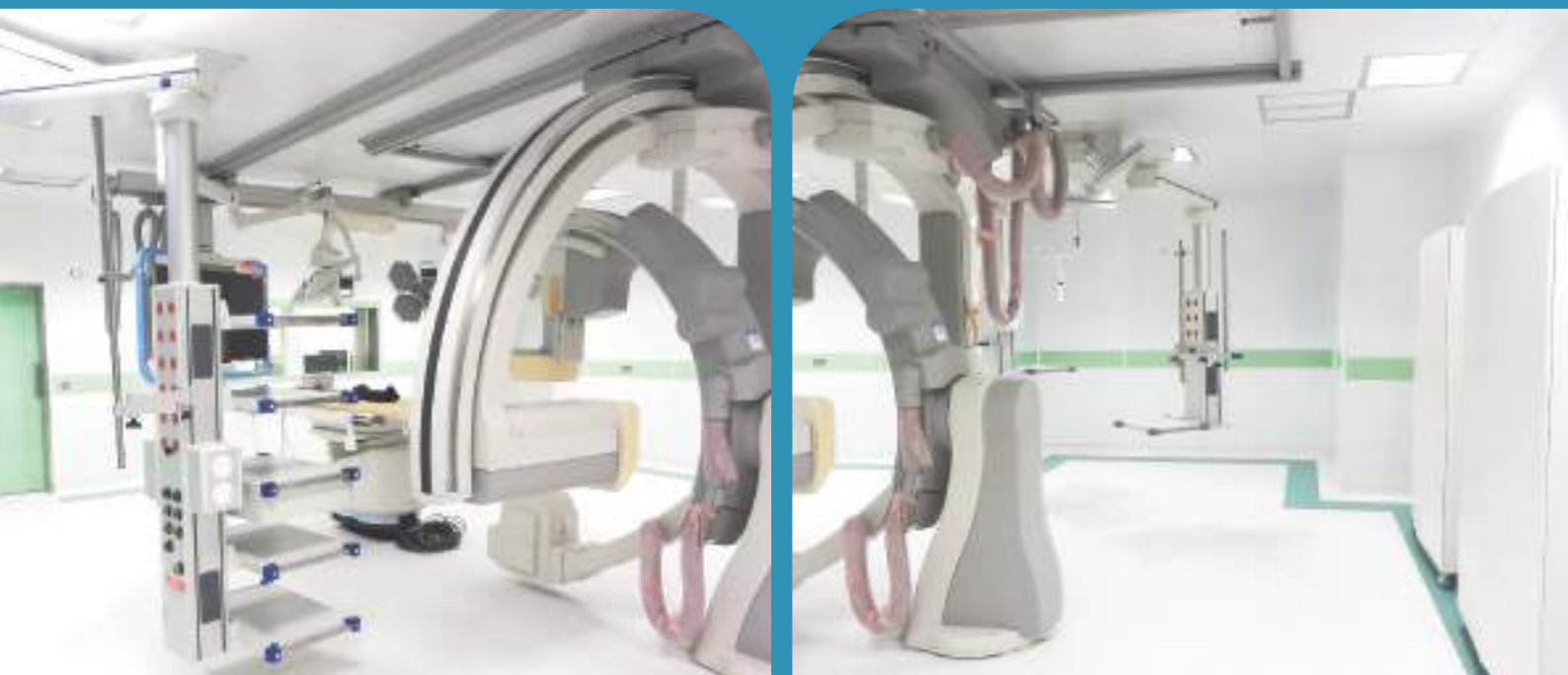
Stainless steel has unique properties that can contribute to a variety of applications in the construction field. This paper reviews how research activities over the past 20 years have influenced the use of stainless steel in construction. It also has a high aesthetic value and is environmentally friendly



Glass Wall Panel with Graphics

Glass especially the professional antibacterial glass is a major innovation in the world of hospital architecture including operating Room.







Walls System



Our Services

Low Current Systems

- Building Management Systems (BMS)
- Uninterrupted Power Supply (UPS)
- Fire Detection & Alarm Systems
- CCTV, Public Address, Access Control, and Satellite Systems

Infrastructure Works

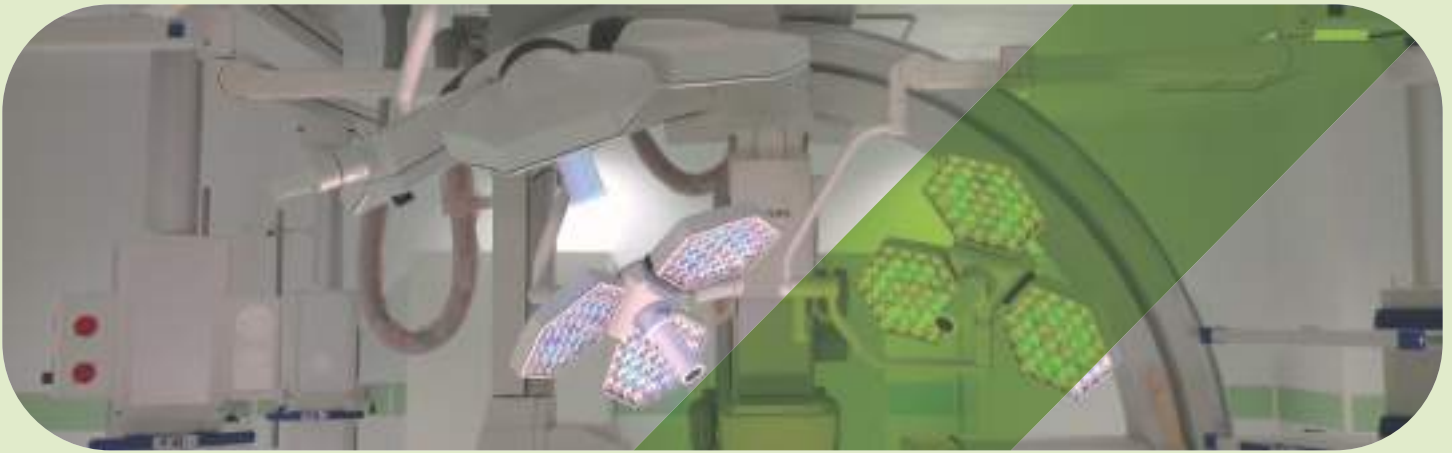
- Civil Engineering
- Chilled Water, Sewage, and Storm Drainage Networks
- Fire Protection and Medium/Low Voltage Cable Networks
- External Lighting Solutions



Our Services

Medical Field Works

- Radiation Rooms (X-Ray, MRI, etc.)
- Modular Wall Systems (Stainless Steel, Wood, PVC)
- Flooring Solutions (Ceramic, Marble, Vinyl)
- Antibacterial Coatings and Specialized Doors



OUR LOCATIONS

Saudi Arabia

Head Office

Ghernatah St. Mushrifa Dist- Jeddah , Saudi Arabia

Egypt

Technical Office

Mehwar ST. 6th October. Egypt



WE **CAN NOT** FAIL IN THE END ONLY **TO EXTEND**
TO YOU MY SINCERE GREETINGS HOPING THAT
HONOR **YOUR SERVICE**