MANUFACTURING AUTOMATION
IndustLabs Automates Production Line Through Software Development & Engineering

MANUFACTURING AUTOMATION SERVICES

PLC PROGRAMMING
We develop new PLC systems from the ground up and also troubleshoot, update, and add to pre-existing PLC systems.

MOTION CONTROL SYSTEMS
Properly tuned motion control programs can help reduce cycle time, product waste, and improve throughput and productivity.

ROBOTICS
We can help with program architecture, path planning, position programming, external axis programming, commissioning, cycle time improvements, and integration with other systems including PLCs.

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YOU KNOW YOUR PROCESS, WE KNOW HOW TO AUTOMATE

We incorporate new techniques and improve our internal processes constantly.

Our work philosophy is to consider our customers' feedback and incorporate it into our work.

We seek to improve the quality and precision of assembly processes. We offer a design services, development and implementation of automation processes.

Taking into account good manufacturing practices, we focus on maximizing customer value and minimizing waste.

- Special Equipment
- Turn key solutions
- PLC Programming
- HMI’s Configuration
- Tooling and fixtures
- Vision Systems
- Design and fabrication

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PLC PROGRAMMING

LET US DEVELOP THE “BRAIN” OF YOUR EQUIPMENT

The best way for your company to optimize time and resources. Let our team design, program, and test your PLC’s focusing on optimization.

PLC Programming

Allen Bradley
Siemens
Omron
Wago

HMI’S Configuration

Siemens WinCC, OP and TP series
Allen Bradley RS View
WinCC flexible, FTview

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VISION SYSTEMS

EFFICIENCY FOR YOUR PRODUCTION LINES.

Datatechnic offers vision technology for industrial automation and control. Our experience in complex traceability systems includes several brands and industries. Our target is to have always a reliable vision system.

We guarantee efficient solutions for barcode scanning to collect data quickly to keep your automated tasks such as inspection, measurement, and counting; in addition to reading barcodes and optical characters. Ideal for high speed, high performance, high magnification, around-the-clock operation, and/or repeatability of measurements. Our technology facilitates the application of quality control criteria, WIP (Work-In-Progress) monitoring, classification, and tracking. It serves as a Poka-Yoke (error-proof) application.

Barcode scanning and machine vision technology for automation and industrial control
Barcode scanning solutions for manufacturing
Barcode technology application
Machine vision systems
Traceability & automatic marking
Robotic Pick and Place Vision System

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ELECTRICAL CONTROL PANEL SHOP

We manufacture and engineer custom electrical control panels for OEMs & industrial customers.

IndustLabs builds panels from the big and complex to the simplest operator station. We treat projects of every size with the same respect and dedication to excellence in our workmanship. Our capabilities cover a broad range of industries and applications, and we are UL Listed as well as certified for hazardous locations. Whatever your project, we have the experience and capacity to produce the highest quality project with the engineering expertise and customer service you deserve.

From control panel design to installation, we at IndustLabs cover every aspect of the process. We are experts at creating control panels that fit our customers' need. We are an engineering solutions company providing custom electrical control panels and products.

PRE-ENGINEERED ELECTRICAL CONTROL PANELS
IndustLabs panels are pre-built and designed for multi-motor and VFD control. Express shipping options are available for those who require faster delivery times.

CUSTOM & OEM SPECIFIC ELECTRICAL CONTROL PANELS
IndustLabs designs & builds electrical control panels quickly & cost effectively. We specialize in electrical control panels for OEM machines. Our custom panels can be UL508A listed.

ELECTRICAL CONTROL PANEL SERVICE DETAILS
IndustLabs can engineer and manufacture at scale a wide range of different types of automation complex control panel. Whether you need a simple electrical relay design or a complex Programmable Logic Controller (PLC) in a single system or a network of PLCs with SCADA or Industrial IoT integrations we are your provider. For more information on the Electrical Control Panel services we offer or our in house UL 508A Panel Shop certifications please review the lists below:

PANEL DESIGN & FABRICATION
The Electrical Engineers at IndustLabs will custom design industrial controls to your specific needs. We treat projects of every size with the same dedication of excellence in our workmanship.

OEM BUILDS & PRIVATE LABELING
IndustLabs helps our OEM customers in a variety of industrial fields to reduce their control system costs, improve efficiency and overall quality.

CONTROLS SUPPORT/SERVICE
Support for your project is a priority at IndustLabs. We are confident that any configuration made on our site is verified by our engineers as correct and is electrically sound.

INSTALLATION & SUPPORT
IndustLabs offers complete or partial system installation with continued support throughout the product life. Our quality products and thorough after-sale assistance allow you to focus on your core business.

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IndustLabs Industrial SCADA / IOT Platform

IndustLabs is a full service provider of custom or off the shelf electrical control panels. Our control panels host a large variety of data that can be crucial to your company's future Internet of Things (IoT) plans. Using a hardware IoT Gateway in each Control Panel we can convert legacy data types, such as ModBus, to modern Ethernet / MQTT data-grams. This IoT Gateway can integrate with your existing IoT platform or with our own IoT platform built for scale in Amazon's AWS Cloud.

INDUSTRIAL SCADA / IOT PLATFORM
The benefit to using IndustLabs IoT platform is scale and customization. Our platform built on Amazon’s AWS infrastructure can be deployed regionally for faster response times, can scale to trillions of transactions per second, and can be custom built for our specific application.

REMOTE MANAGEMENT & MONITORING
The IndustLabs IoT platform can be custom developed to provide alerts based on custom thresholds and events. With each data type, a notification can be built to allow your business to respond to events faster and reduce your facility downtime. We can also build in remote operations such as to start / stop a motor or change the motor speed based on various conditions.

SCADA INTEGRATION
The IndustLabs IoT platform can be custom developed to provide alerts based on custom thresholds and events. With each data type, a notification can be built to allow your business to respond to events faster and reduce your facility downtime. We can also build in remote operations such as to start / stop a motor or change the motor speed based on various conditions.

IOT INTEGRATION
Even if you do not have any Control Panel needs we can still leverage our IoT Gateway platform to consolidate the sensors you have in your facility so you can turn your sensor data into business intelligence.

ARTIFICIAL INTELLIGENCE
IndustLabs has partnered with SparkCognitions, the leader in Industrial AI. Leveraging their Spark Predict technology we can predict motor failures with up to a 95% accuracy rate.
IndustLabs is the most suitable industrial supplier for the OEMs and Tier 1 manufacturing companies. Through the alliance with our automation equipment partners our ability to provide high-level solutions is assured.

We have developed automated assembly systems for: Laser engraving systems, turbochargers, vision inspection systems, harnesses for the automotive industry, heat exchangers, automated welding applications, charge-discharge (robot) and machinery safety integration.

**IndustLabs provides the best in class Industrial Automation solutions.**

**APPLICATION:**
- New energy battery assembly
- Automotive Parts
- Household Appliances
- 3C Electronics

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MATERIAL HANDLING SOLUTIONS

As a system integrator, IndustLabs seeks out leading technologies in both material handling equipment and Robotics systems coupled with proven operational strategies.

Our experts combine the powers of scalable material handling systems, innovative software and custom automation engineering for complete, unique solutions.

Our history of solutions together with our renown partners, varies in complexity from simple to highly automated, such as:

- Collaborative robots
- Flexible feeders
- Automated guided vehicles (AGV)
- Goods-to-person technology
- Sortation
- Conveyor

Every solution our team proposes is considered on its own merits to provide tremendous productivity gains and a quick return on investment.

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ROBOTICS

Mobile

OMRON Automation

Collaborative

JAKA®

Industrial

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To fight climate change we need carbon neutral energy production and distribution. For that, renewables such as wind and solar are key. But their supply fluctuates – and still, energy demand has to be met, and the grid has to operate reliably and economically.

While today’s energy producers respond to grid fluctuations by mainly relying on fossil-fired power plants, energy storage solutions will take on a dominant role in fulfilling this need in the future, supplying renewable energy 24/7. It’s already taking shape today – and in the coming years it will become a more and more indispensable and flexible part of our new energy world.
MOBILE DATA CENTER CONTAINERS

IT containers based on the modular principle

Growing data volumes and escalating requirements are a common cause of problems in existing IT environments. Container solutions for outdoor siting are one possible answer to this problem. For the conventional components of rack, power, cooling and monitoring, Indust-Labs and its strategic partners Innovo Cloud and Lefdal also offer "IT as a Service", together with a location the Lefdal Mine Datacenter in Norway which can save up to 40 percent energy costs compared with a data center in Germany.

The digital transformation means a radical shake-up. New technologies such as smart cities, connected cars, streaming services, Industry 4.0 and mobile data offer new opportunities, but also necessitate the storage and rapid processing of huge volumes of data. This creates a demand for ever more flexible and modular IT solutions. Ideally, these should be located where the data is produced, i.e. locally and close to the user. This is where Edge Data Centers come into their own, combining short latency times with exceptional computing power and optimum reliability. IndustLabs Edge Data Center solutions are available with 2, 4 or 6 racks, incorporating predefined components for energy supply, cooling, IT security and monitoring. Of course, the data centre may be installed in a container for flexible siting.

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MOBILE MINING STORAGE CONTAINERS

The Bitcoin Cube is a modular mining container. It uses a standard container structure, and after connecting to electricity and the network, you can immediately mine bitcoins. It significantly reduces the cost of building a mining farm. It is easy to transport and can be installed quickly once it arrives on site.

The Cube has a single row design inside, with fan cooling, external curtain wall and motorised louvres for good heat dissipation.

MINERS

INPUT
Electricity

OUTPUT
Cryptocurrency

The advantages of our crypto mining containers

- The most efficient use of space inside the container. The entire multimodal freight container structure makes it easy to expand and transport, with the ability to accommodate any size mine.

- It requires only four steps to get it powered up and running. It is a truly efficient, convenient, secure, stable and economical modular mobile data centre.

- The Cube cooling system, which can be selected to suit different regions and climates, can be changed at will by simple operation.

- The whole container is an international shipping standard container with gas welding all-welded process standard, stable structure and high quality. The inside of the cabinet can be set up with 24-hour close monitoring video to ensure mining safety in the server room.

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Industrial Robots and Cobots
Vision Systems
Assembly Lines
Energy/Data Containers
Material Handling Solutions
Industrial Control

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Automation | Data/Energy Storage | Internet of Things