Controlled networks | Technology Focused Cloud Driven.

CUSTOM ENGINEERING

TWO DISCIPLINES, ONE ENGINEERING TEAM

SOFTWARE	Applications, databases and integrations
SOFTWARE	PLC, HMI and firmware programming
HARDWARE	Control panels, sensors and industrial networks
HARDWARE	IoT devices and electronic design

SOFTWARE & AUTOMATION ENGINEERING

We write the software. We build the hardware. They work together.

CNS engineers develop business applications and design the industrial automation, PLC and IoT systems behind them. One team takes your idea from the circuit board to the dashboard.

WHY ONE TEAM FOR BOTH SIDES MATTERS

01

No gap between vendors

When the machine and the application disagree, there is one team to call, and it built both.

02

From the plant floor to the server

The same engineers understand the PLC on the line and the database that stores its data.

03

Built to be maintained

Documented code, drawings and a handover, so the system can be supported for years.

Tell us what you want to build or automate.

800-700-7500
www.controllednetworks.com

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SOFTWARE & AUTOMATION ENGINEERING

What we build, software and hardware

Two separate capabilities you can hire on their own or together.

SOFTWARE Application development

Custom business applications
Desktop, web and mobile applications built around your process.

Databases and reporting
SQL Server and PostgreSQL design, reports and dashboards.

System integration
Connections between your ERP, accounting, production and legacy systems.

PLC and HMI programming
Ladder logic, structured text and operator screens for new lines and retrofits.

Firmware and IoT software
Embedded C for microcontrollers, FPGA logic, and the data collection and alerts behind connected devices.

HARDWARE Industrial automation and IoT design

Control panels
PLC panels, drives and operator stations, designed and wired.

Sensors and instrumentation
Selecting and connecting sensors, meters and actuators.

IoT device design
Custom boards with microcontrollers, connectivity and power design.

Electronic and FPGA design
Schematics, digital logic and working prototypes.

Industrial networking and servers
The links between machines, PLCs and the servers that run the system.

TYPICAL PROJECTS

Line data on a dashboard
Production counts and alarms from the PLC to a live screen.

A device with its own app
A custom sensor or controller and the software to manage it.

Replacing a legacy system
An old application or controller rebuilt on a supported platform.

Monitoring and alerts
Equipment that reports its own status and calls for help.

HOW WE WORK

01
Discover
We learn the process and what it must do.

02
Design
A written specification, software and hardware.

03
Build and test
We build it and test it against the specification.

04
Deploy and support
Installation, training and ongoing support.

Tell us what you want to build.

Describe the process, the machine or the idea. We reply with a plan for the software, the hardware, or both.

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