



HTSE Inc.  
2700 Old Centre Road  
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[www.htse.com](http://www.htse.com)

**HTSE Inc.** provides automation solutions for some of the world's largest life science, chemical, food/beverage, and manufacturing companies. Our intense focus in these industries has resulted in technical fluencies, foresights, and insights honed through many years of relevant experience. This level of experience creates true value for our clients - value that is measured by decreased project timelines, more reliable system performance, and higher manufacturing throughput.

**Client** satisfaction is key to the building of a long-term client relationship. Repeat business is the result of that relationship and is a true testament of track record. At HTSE, repeat business from loyal clients account for 90% of our work.

**With** over 1000 completed projects for client corporations; our clients know us for our depth of knowledge, economy of use, and skillful project executions. Regardless of project size, we take a partner's interest, investing our knowledge and energy as stakeholders.

**Exceptional performance requires exceptional capability.**



**Exceptional** performance requires exceptional capability. In the world of process automation and machine control, the "state-of-the-art" changes continuously. The winning formula for keeping up is platform training plus related experience. We institute continuing education and training programs. This ensures our staff is not only experienced in the support of legacy systems, but also knowledgeable and skilled in the design and deployment of market fresh control platforms and technologies.

In addition to on-going professional training, HTSE automation engineers possess an average decade-plus of field experience.

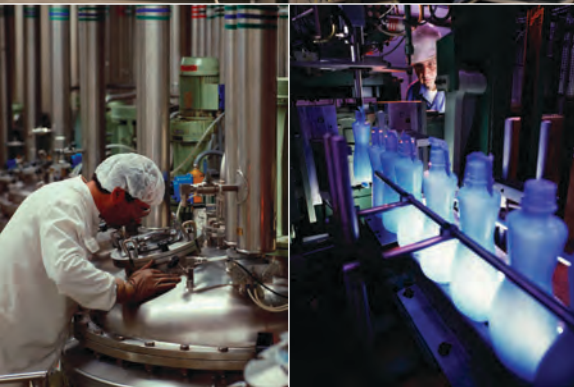
**We envision, engineer, and execute automation projects on time and on budget – project after project.**



**Chemical**  
**Food & Beverage**  
**General Manufacturing**  
**Medical Device**  
**Petrochemical**  
**Pharmaceutical**  
**Pulp & Paper**



Process Automation  
S88 / Batching Systems  
Continuous Process Controls  
Startup, Troubleshooting, and Commissioning  
Machine Control  
Vision, Barcode, and Serialization  
Packaging Line Integration/Automation  
Startup, Troubleshooting and Commissioning  
SCADA, HMI, and Data Acquisition  
SCADA Virtualization  
Electrical Engineering  
Life Science / Pharmaceutical Validation  
Project Management  
Information Technology and Infrastructure  
Industrial Control and Data Networks  
CAD Services



**Although** HTSE maintains vendor and technology independence, we have partnerships with key platform and component providers – as well as extensive experience in the development and deployment of solutions using their technologies.

**Our** commitment to partner with world class technology providers further strengthens our ability to deliver world class automation solutions. Formal training and experience on these platforms allow us to competently implement and deploy open field-proven control systems that can be readily expanded and supported by the client.

**Each** partner program strengthens our technical competencies and skills. They enhance the intellectual product that is truly the core value we provide our clients. HTSE platform experience includes:

#### PLC Platforms

ABB  
Allen-Bradley / Rockwell Automation  
GE Fanuc  
Mitsubishi  
Modicon  
Siemens  
and others...

#### Vision Systems

Banner  
Cognex  
Datalogic  
Keyence  
Systech  
and others...

#### DCS Platforms

ABB  
Emerson  
Fisher Provox  
Foxboro  
Honeywell  
Siemens  
and others...

#### Barcode Verification

Cognex  
Computer Identics  
Datalogic  
Microscan  
and others...

#### HMI, SCADA, and Visualization

ABB  
GE Intelligent Platforms  
Inductive Automation / Ignition  
LabView  
Matrikon  
OSIsoft  
Rockwell Automation  
Siemens  
Wonderware  
and others...

#### Industrial IT & Control Networks

Cisco  
Dell  
Liebert  
Microsoft  
SQL Applications  
VMware  
WatchGuard  
and others...

#### CAD Services

AutoCad  
MicroStation  
Visio

HTSE provides automation and validation solutions to some of the world's largest pharmaceutical and life science companies. We offer extensive knowledge and experience in the automation and validation of pharmaceutical process and packaging line control systems. From validation document creation to protocol execution, we possess in-depth knowledge of regulatory compliance requirements for pharmaceutical processes and facilities.

## CHEMICAL

**Safety** systems, reliable process operation, and adherence to environmental regulations are just some of the many factors that add challenges to automation requirements in the chemical industry. Our high level of knowledge in these areas allow us to develop safe, rugged, reliable, and compliant automation solutions that are essential in chemical processing plants.

## FOOD/BEVERAGE

From soft drinks and fruit juices, to infant formulas, cereals, and candy, HTSE has the requisite controls knowledge and experience in the manufacturing and packaging of food and beverage products. With extensive experience in food manufacturing and formulation, HTSE can provide control solutions that reduce product variation, waste, and equipment downtime.



**Our intense focus in these areas has resulted in technical fluencies, foresights, and insights honed through experience.**



## MANUFACTURING

Since 1989, HTSE has supported numerous and diverse manufacturing clients. While each client's project is unique in its specific challenges, HTSE has the industry experience and capabilities to provide innovative automation solutions to meet those challenges. Our clients rely on us for solutions that maximize throughput, lower operational costs, and maximize design leveraging to accommodate changes as their facilities grow.



## INDUSTRIAL IT

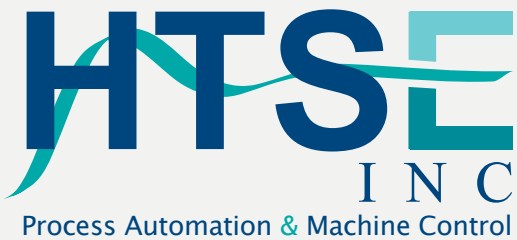
**Industrial IT** engineers who have experience with the operational differences between control networks and office networks are essential for the successful design and deployment of manufacturing-critical networks. It is what makes the difference between limping along with frustrating network problems or benefiting from a correctly designed, fully functional, and robust industrial control network that is reliable in operation. HTSE provides the expertise needed for the design and implementation of plant-wide or multi-site manufacturing control networks.

**SCADA virtualization** has become the methodology of choice for the benefits it offers in areas such as cost savings, hardware independence, and disaster recovery. Our Industrial IT engineers are experienced with the latest virtualization technologies and their application to SCADA and data acquisition systems. In addition, we have experience developing and deploying virtualization solutions in validated environments.



HTSE's 10,000 sq. ft. design facility in Portage, Michigan USA

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