

FOCUS ON FOOD AND BEVERAGE INDUSTRIES

PROCESS AND TECHNOLOGY EXPERIENCE

Stone has years of experience implementing projects for the food/beverage and consumer products industries. Many of our projects have been performed for Fortune 500 food and beverage producers of “Ready-to-Eat” cereal, meat processing, cheese, confections, beer, water, snacks, etc... Project scopes ranged from equipment control to controlling all facets of the facility and plant floor information systems including:

Process Expertise

Raw material receiving and storage (liquid and dry)	Ovens and Dryers
Dry material transfer (pressure and vacuum)	Depositors
Liquid material transfer (LIW, flow, weigh cells)	WIP Tracking
Batch management and mixing	Portable Interfaces
Cooking	Utilities
Cooling tunnels	Waste systems
Extrusion, food and plastic film	Blow molding
CIP and SIP	Validation
27CFRPart11	

Material Handling Expertise

Material receiving and storage (Liquid and Dry)	Packaging – can and bottle, including aseptic
Print and apply	Line control
Palletizing Controls	System monitoring
Mechanical design and layout	Case Conveying

INDUSTRY EXPERIENCE

- Stone approach is to develop lasting relationships with its clients in order to bring maximum value. We have developed relationships and have never done just a single project with any of our clients. The following are highlights of our multi-project relationships with our food, beverage, and consumer products clients.

❖ Kellogg’s

- Replacement of over 130 Wonderware HMI’s in the bakery and Installation of the palletizing and warehouse control system for “Ready to Eat” cereal plant
 - Battle Creek, MI –
- Material handling system optimization
 - Lancaster, PA
 - Omaha, NB
- Pop-Tart production
 - Pikeville, KY



Celebrating 10 Years of Excellence

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❖ **Kraft**

- Controls upgrade for Macaroni and Cheese dinners
 - Springfield, MO
 - Champaign, IL
- Drink processing and aseptic filling for convenient drinks
 - Granite City, IL

❖ **Post Cereal**

- Full production line, including grain handling through packaging and CIP System for "Ready to Eat" cereal plant
 - Jonesboro, AR
- Over 100 process and utility projects including control retrofits and new production lines within a single facility
 - Naperville, IL
- Material handling/warehouse system along with finished product handling and palletizing for "Ready to Eat" cereal plant
 - Battle Creek, MI

❖ **Miller Brewing –**

- Recipe management, packaging line controls, CO2 monitoring system and reporting for pilot brewery
 - Milwaukee, WI

❖ **Starbucks Coffee Company**

- Batching, control and MES for coffee roasting plants
 - York, PA
 - Kent, WA

❖ **Oscar Mayer**

- Control of the continuous cook/chill sausage process in several facilities
 - Madison, WI
 - Kirksville, MO
 - Davenport, IA
- Control of high-speed slice pack packaging lines in several facilities
 - Madison, WI
 - Kirksville, MO
 - Davenport, IA

❖ **Unilever**

- Program to replace the batching System in four Margarine plants and reporting
 - Baltimore, MD
 - Atlanta, GA
 - Elgin, IL
 - Olathe, KS

❖ **Con Agra**

- Program to implement Overall Equipment Effectiveness (OEE) system in multiple plants
 - St. Louis, MO
 - Holland, MI
 - Mayville, WI
 - Memphis, TN
- Aseptic process and packaging controls for Egg Beaters production
- CIP/SIP systems
 - St. Louis, MO
- Process and packaging of margarine for Margarine production
 - Indianapolis, IN

❖ **CHR Hansen**

- Control of flavors and color production
 - Milwaukee, WI
- Molasses production
 - Calumet, IL
 - Gretna, LA

❖ **McKee Foods**

- High speed pick and place servo machine control of breakfast bars
 - Gentry, AR

❖ **Nestle Water**

- Mountain Water greenfield site production
 - Dallas, TX

❖ **Fosters Group**

- Wine receiving, blending, and packaging
 - Napa, CA

❖ **Nestle Purina Pet**

- Fines collection, sortation, and reclaim system for dry pet food production.
 - Dunkirk, NY

❖ **Cott Beverage**

- Overall Equipment Effectiveness (OEE) system for water and soft drink packaging lines.
 - Sikeston, MO

PROJECT MANAGEMENT EXPERTISE

Stone Technologies, Inc. is a national systems integration company that focuses on project delivery. Our excellent track-record in project delivery is attributed not only to our experienced technical staff, but also to our project management capabilities and procedures.

- Managed multi-discipline turn-key and automation projects in excess of \$2MM.
- Specialize in Systems Integration projects, thus honing the unique project management requirements that accompany software projects.
- Utilize proven software development standards to reduce risks, including methods and procedures to track progress and ensure timely completion.
- Communicate effectively with client operations, maintenance, engineering, project management as well as other consultants to gather and provide needed information.
- We have a documented and proven standard project methodology.

TECHNICAL EXPERTISE

PLC & DCS

Allen-Bradley ControlLogix, PLC 2,3,5, PI, SLC, MicroLogix	Taylor ABB Mod 300
Modicon 584, 984, Quantum, Momentum, Compact 984	Moore (Siemens) APAC
GE Series 6, 09-XXX	Siemens S5, S7
Telemecanique XTEL & PL7	Square D SY/MAX
Honeywell DCS	TI 505, 530, 545, 555

HMI

Allen-Bradley/Rockwell RSView SE, RSView, Wintelligence, PanelView	GE Simplicity
Wonderware InTouch, Industrial Application Server	IDT/C-H PanelMate
Intellution Fix, Fix32, Fix Dynamics, iFix	Screenware
Factory Link	Uticor PMD, PGI
CTC Interact	Monitrol

Batching

Wonderware InBatch	OpenBatch
Delta V Batch	Siemens Batch

MES Products

Rockwell Software Plant Metrics, RSSQL, Historian, RSTools.	LabView
Wonderware InBatch, InTrack, InSQL, Active Factory, SPC Pro, Industrial Application Server	OSI-PI
Aspen Tech CIM/21	Bar coding

Software Languages and Operating Systems

Microsoft Win NT/2000 Pro and Server, UNIX, Novell, VMS, .net, ASP.net, MS Reporting Services	ACP thin client & Citrix
Databases – MSSQL Server, MSDE/Access, Oracle, Sybase, DB2	Languages – VB, VB.net, C++/Visual C++, Fortran, Active X
Browser and web visualization – HTML, Java, Active server pages, XML, MS IIS, SOAP	Web portal – MS Sharepoint, Lighthammer Illuminator

TECHNICAL EXPERTISE, continued

Reporting

Microsoft Reporting Services	Crystal Reports
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Networking/Communications

Ethernet (TCP/IP)	Token Ring
A-B Data Highway	DeviceNet
Modbus/Modbus+/Modbus TCP	VPN, RAS, PCAnywhere
OPC	COM/DCOM

Electrical Design

Control System Architecture Design	Systems Vendor Coordination
Control Panel Design	Heat Tracing
MCCs and Power Distribution Panels	P&ID Development
One-Line Diagrams	Loop Drawings
Electrical Schematics	Device Database
Electrical Plans and Raceway drawings	Instrument Specifications
Grounding & Lightning Protection	Installation supervision
Lighting and Receptacle Design	Checkout & Start-up Support