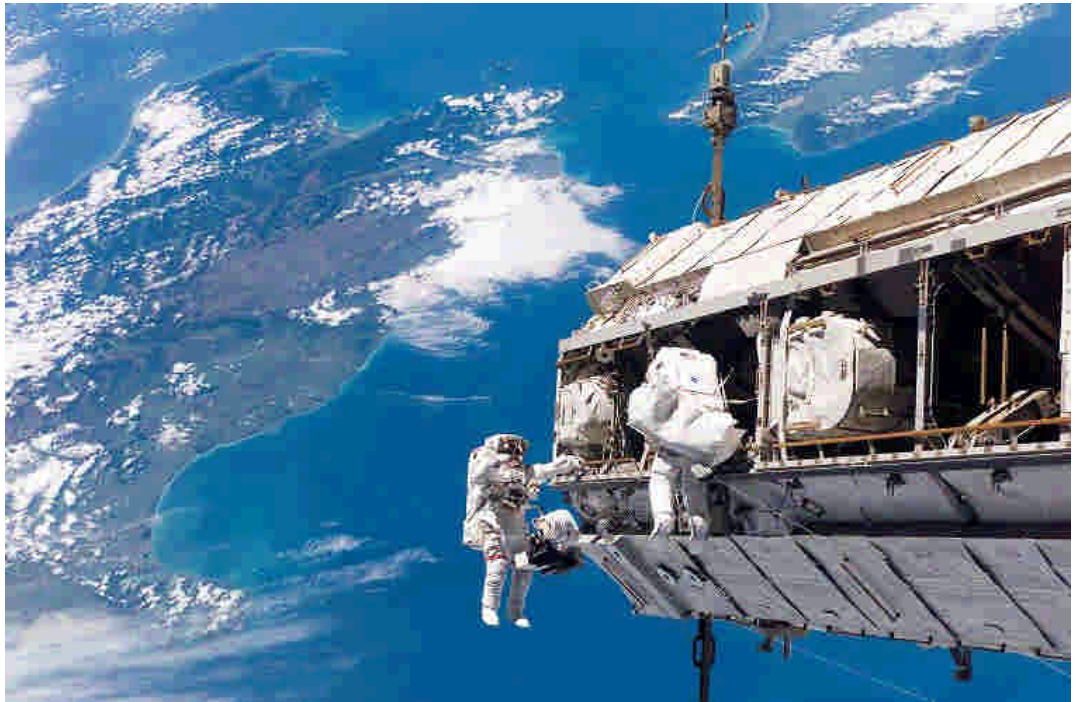


LOGIC DESIGN

corporation

Transforming Engineering & Manufacturing



NASA PHOTO CREDIT

Providing Innovative Solutions
Since 1983

www.ldcglobal.com

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About Logic Design Corporation

Founded in 1983, Logic Design Corporation is a Software Development and Technology Integration Company that specializes in innovative, leading edge software solutions that help Engineer-To-Order manufacturing companies transform engineering and manufacturing to design and build products better, faster and cheaper. LDC helps your company stay ahead of the competition with proven products and services that are practical to implement and deliver a rapid Return On Investment. LDC enables manufacturing companies to achieve high levels of engineering productivity and help attain an integrated digital factory environment with products and services that include:

- ▶ **Global Edge® 11.0 – Productivity Suite**
- ▶ **2D / 3D CAD Programming**
- ▶ **Shop Floor Integration / Automation Planning**
- ▶ **Technology Integration Programming**

What Can LDC Do For Your Company?

Logic Design Corporation delivers cost effective software solutions for increasing productivity and improving efficiency in both engineering and/or manufacturing. Functionality and benefits that can be achieved in each of these areas include:

Engineering Automation

- ▶ **3D CAD Programming to Automate Repetitive Design / Drawing Tasks**
- ▶ **Simplified Method to Manage Engineering Bill of Materials**
- ▶ **Automated Product Configuration / Drawing Generation**
- ▶ **Automated BOM / Routing Generation**
- ▶ **CAD Drawings / BOM Integrated with ERP / Business System**
- ▶ **Process Engineering Order Information Rapidly**

Manufacturing Automation

- ▶ **Engineering / Order Information Automatically Processed for Production**
- ▶ **Engineering CAD Drawings Automatically Processed for Shop Floor Automation**
- ▶ **Automatic Generation of DXF Files From 3D Parts**
- ▶ **Automatic Generation of Sheet Metal Folding Programs**
- ▶ **Automatic Generation of Short Run Welding Robot Programs**
- ▶ **Complete Information Provided to Shop Floor When & Where Needed**

Johnson Controls, Cooper Power Systems, Siemens, and Lambda Electronics are some of the many companies that have benefited from the products and services of Logic Design Corporation. Benefits provided have included significantly reducing engineering and manufacturing cycle times by automating many of the manual time consuming workflow tasks that range from product configuration to drawing generation, to providing the shop floor with complete information when and where needed. For more information on how the products and services of Logic Design Corporation can help your company achieve significant productivity gains, faster delivery times, improved product quality, and reduced costs, visit www.ldcglobal.com

Our Mission

“To provide manufacturers with innovative, cost-effective solutions for reducing costs, improving productivity and streamlining operations to achieve a competitive edge.”

Global Edge[®] 11.0 – Productivity Suite

The Power to Succeed in a Global Market

The **Global Edge[®] 11.0 – Productivity Suite** is a powerful set of innovative software tools that allows you to automate many of the common tedious workflow tasks that take place in the engineering design / order process and preparing information for manufacturing and the shop floor. **Global Edge** keeps your company ahead of the curve and competition with technology providing simplified methods to automate manual workflow tasks and providing the proper information when and where needed.



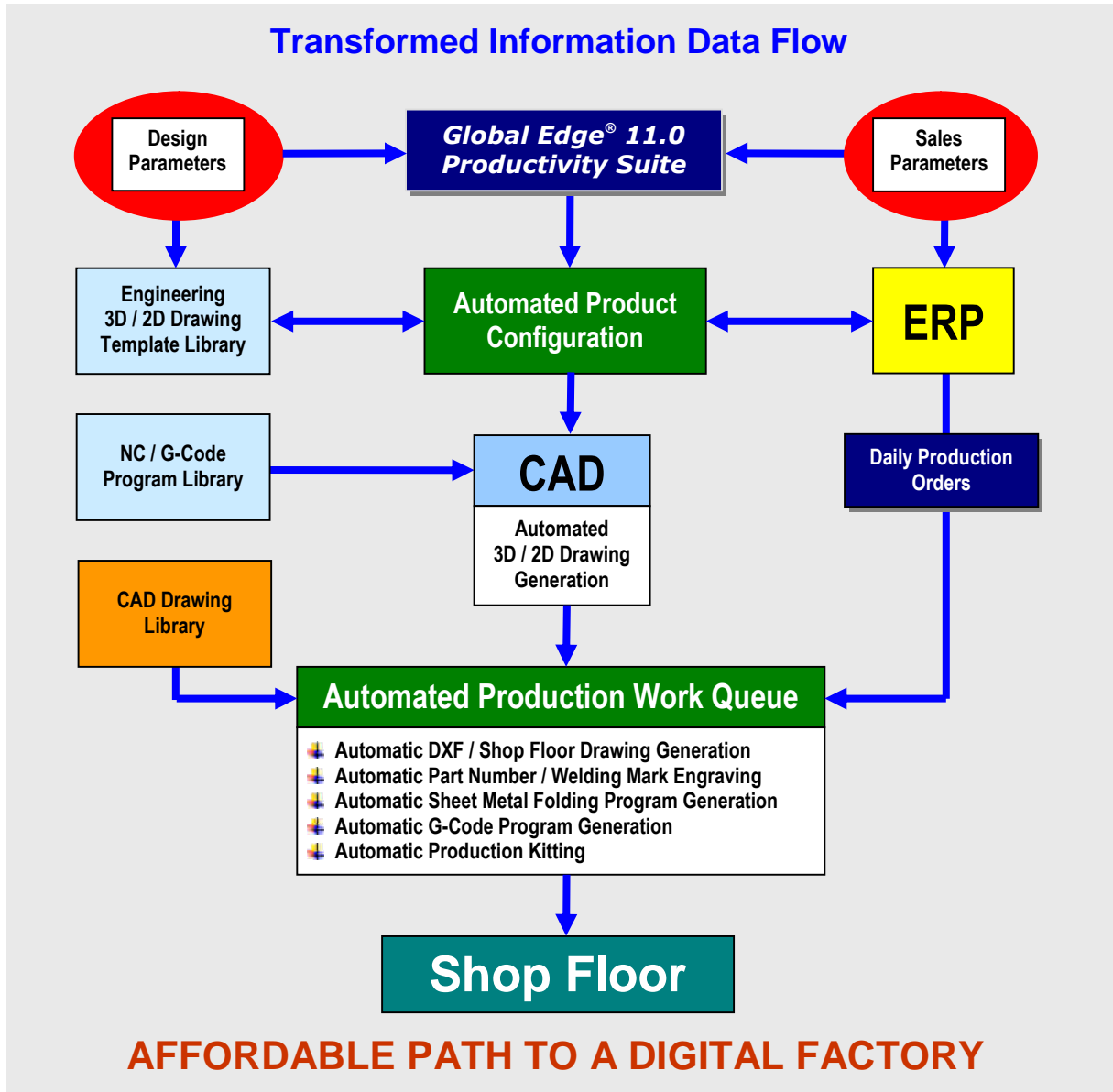
Global Edge works with your existing software and hardware technology and automates many of the time consuming manual workflow tasks that range from product configuration / quoting, to automatic drawing generation, and to the automated processing of orders with information ready to fully drive today's modern shop floor automation in both short and long production run environments. **Global Edge** can reduce the time required to process daily production orders from hours to minutes while helping to increase shop floor capacity and significantly reduce manufacturing lead times. **Global Edge** makes it possible for your company to effectively compete in a global marketplace and utilize modern shop floor automation to its full potential to achieve a digital factory environment.

The **Global Edge 11.0 – Productivity Suite** includes the following powerful software modules:

- **Global Edge – Product Configurator**
- **Global Edge – Bill of Materials / Routing Management**
- **Global Edge – CAD / BOM Interface / Drawing Generator**
- **Global Edge – Production Work Queue**
- **Global Edge – Sheet Metal Folding Program Generator**
- **Global Edge – Generic ERP Interface**

Global Edge has been successfully implemented at manufacturing companies that range from small to Fortune 200. For more information and a demonstration of how **Global Edge** can benefit your company, please visit www.lidcglobal.com or call: 262-695-1300.

Global Edge® 11.0 – Productivity Suite Workflow Diagram



Expected Results

- ▶ Simplified Processing of Engineering and Manufacturing Bill of Materials
- ▶ Processing of Engineering / Production Orders Reduced from Hours to Minutes
- ▶ Reduced Manufacturing Steps
- ▶ Manufacturing Lead Times Significantly Reduced
- ▶ Efficiently Drive Complete Information To / From Shop Floor
- ▶ Reduced Clerical Work / Improved Information Accuracy
- ▶ Maximum Shop Floor Output Utilizing Modern Shop Floor Automation

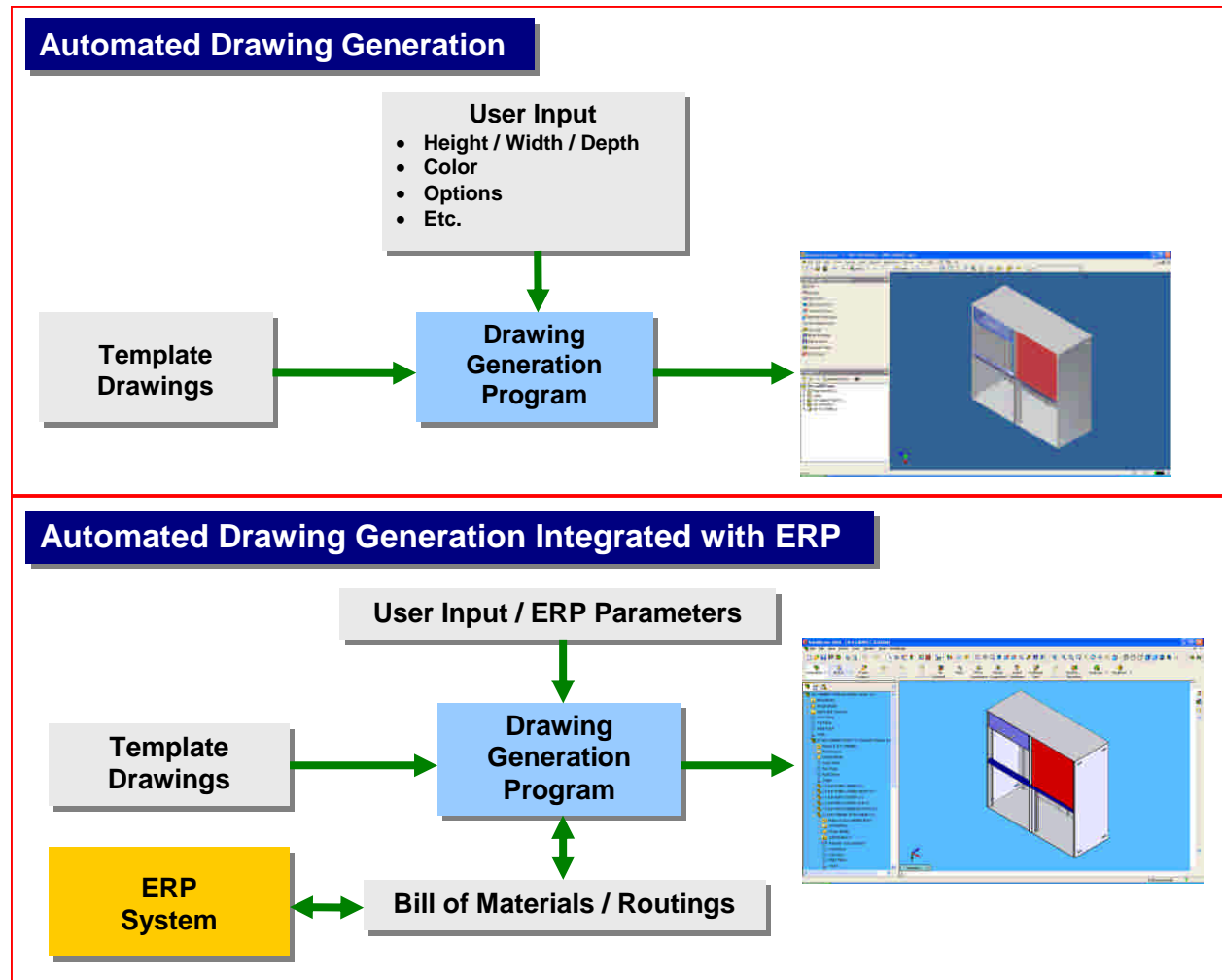
2D / 3D CAD Programming

Logic Design Corporation offers the programming expertise to add functionality to your 2D and 3D CAD software to enhance productivity and eliminate repetitive design / drawing tasks. These programming services range from drawing data extraction to automatic generation of geometry with information either supplied from an external database, spreadsheets, ASCII files, or prompted operator input. Services also include integrating CAD functionality with third party software add-ons that range from simple utility programs to full integration with your ERP / Business system.

- **Automated Drawing Generation / Product Configuration**

o Actuators	o Drill Bits	o Lifts
o Bearings	o Drives	o Metal Enclosures
o Blowers	o Dryers	o Motors
o Brackets	o Elevators	o Pumps
o Compressors	o Fabricated Assemblies	o Tanks
o Containers	o Frames	o Trailers
o Conveyors	o Furnaces	o Transformers
o Cylinders	o Heat Exchangers	o Vacuum
o Dampers	o Heaters	o Windows
o Doors	o Journals	

- **ERP Connectivity**



Technology Integration Programming

Logic Design Corporation provides software development services for integrating CAD and engineering with ERP and manufacturing. Our services also include developing software specifications that help insure software projects are successful and fall within budget. We can either work with your IT staff to supplement their efforts or take full charge of a software project if desired. Our software expertise starts with a very efficient design of the data flow and database structure for optimum software performance.

Services & Platforms Include:

- ▶ **Custom Applications & Programming Services**
 - **Development of Software Specifications**
 - **Database Design & Programming**
 - **Data Migration & Conversion**
 - **Product Configuration**
 - **Engineering & Manufacturing Applications**
 - **ERP Systems Interface (Oracle, SAP, Legacy, etc.)**
 - **Process Control**
 - **Shop Floor Data Collection / Reporting**
 - **PLC Programming / Connectivity**
 - **Mainframe Connectivity**
 - **System Training & Support**

- ▶ **Programming Languages**
 - **4Js Genero / Business Development Language**
 - **Informix Dynamic 4GL / Informix 4GL**
 - **Visual Basic**
 - **Visual Studio.NET**
 - **C++ / Visual C++**
 - **Java**

- ▶ **SQL Databases**
 - **DB2**
 - **Genero DB**
 - **Informix Dynamic Server**
 - **Oracle**
 - **Progress**
 - **SQL Server**
 - **Sybase**

- ▶ **Platforms**
 - **Linux**
 - **Unix (AIX, SCO, H.P., SUN, IBM)**
 - **Windows 95 / 98 / NT / 2000 / XP / Vista**
 - **LANs, WANs, TCP/IP**

Real-World Success Stories

Over the past 20 years, Logic Design Corporation has helped manufacturing companies that range from small to Fortune 200 with innovative solutions that have transformed their operations. Here is what our customers have to say:

Reuse Rather than Re-Create – Quit Reinventing the Wheel!

“Without the Global Edge – Product Configurator, we would need to create hundreds of bill of materials (the list of damper components), which requires hundreds of engineering and clerical hours to create and maintain. Orders that once took up to four hours are now processed within 20 seconds.”

Steve Yoder, Damper Cell Manager
Johnson Controls – Watertown, Wisconsin

Cycle Time is Shrinking – My Customer Wants Everything “Yesterday!”

“Within one year of implementing Global Edge the time from order entry to shipment of custom power supplies decreased from four months to three weeks.”

John Garcia, V.P. Engineering
Lambda Electronics, Inc. – Melville, New York

Effectively Manage Your Enterprise!

“Global Edge has effectively introduced and updated a total program for Carron Net Company. Starting with the custom product Configurator and working through inventory, order entry, the general ledger and accounting, Global Edge has integrated a complete system. We have found the system easy to use and navigate, yet complex enough to handle our needs.”

Troy Christiansen, Vice President
Carron Net Company – Two Rivers, Wisconsin

Find the Right Information When You Need It!

“Global Edge has reduced the time spent entering data and searching for information resulting in 50% more design time available.”

Jeff Duxbury, Project Engineer
Nelson Industries – Black River Falls, Wisconsin

Effectively Control Bill of Materials & Documents!

“Logic Design Corporation is an excellent example of Total Quality Management; They have proven to me time and time again that customer satisfaction is their number one objective.”

M.J. Fox, Document Control Manager
Aztek Engineering Incorporated – Boulder, Colorado

Increase Engineering Productivity!

“Global Edge allows engineering to control the product which has dramatically increased the efficiency of the engineering and manufacturing departments.”

Andrew Johnsen, Electrical Engineer
Lambda Electronics, Inc. – Melville, New York

Success Story Article – Johnson Controls

Informix®

THE MAGAZINE • SUMMER 2000

Article Reprint

Logic Design Configurator a Breath of Fresh Air

WHETHER YOUR OFFICE BUILDING IS COOL AND COMFORTABLE or hot and stuffy, depends in part on devices called dampers and actuators. When a building's HVAC system calls for customized dampers and actuators, that can mean a tremendous load of order processing and therefore added costs for the device supplier.

The Damper Production Facility at Milwaukee's Johnson Controls, Inc., the world's largest manufacturer of environmental control systems, has dramatically increased the number of custom orders it can process thanks to Informix partner Logic Design Corporation and its Global Edge - Product Configurator.

The Configurator is currently being used for custom orders in Johnson Control's damper production cell. A damper, consisting of a shroud, an actuator, movable blades, and a variety of other customizable options, range from a few inches to a couple of feet wide, are used to control airflow in various heating and cooling applications.

"Without the Configurator, we would need to create hundreds of bills of material (the list of damper components), which requires hundreds of engineering and clerical hours to create and maintain," says Steve Yoder, Damper Cell Manager for Johnson Controls.

Driven by the Informix Work Group Server database, the Global Edge - Product Configurator allows for real-time processing of complex custom orders requiring intricate configurations and calculations used by Johnson Control engineers. Orders that once took up to four hours are now processed within 20 seconds.

According to Lars Hedman, President of Logic Design Corporation, "What we're doing for Johnson Controls is finding a way to link all of their islands of information together, from engineering to enterprise resource planning to the shop floor."