



STREAMLINING COMPLEX SPACES
AND PROCESSES

Industrial + Manufacturing Group

GHAFARI

SPACE
TO
THRIVE

We've been on *ENR's*
Top 10 Industrial and
Manufacturing EAC firm
list for over 10 years.

Our integrated team combines process engineering, facility engineering, architecture, and construction services to create comprehensive spaces tailored to the people and operations they house. This approach allows structures and processes to work in unison, which helps our clients streamline day-to-day operations and realize their full productivity potential.

Guided by 6 Sigma and lean principles, we tailor projects to the precise needs of each client. As we work together, we blend experience with ingenuity to find new ways of adding value to complex operating environments.

MARKET SERVICES

CONSULTING

- Business Process Design and Evaluation
- Discrete Event Simulation
- Energy Use and Alternative Energy Strategy Development
- Facility Assessment Analysis
- Facility Network Analysis
- Feasibility Studies
 - Cost Management
 - Growth Planning
- Internal Operations Planning and Industrial Engineering
 - Finished Goods Material Handling
 - Inventory Levels
 - Material Flow and Value Stream Mapping
 - Packaging Equipment
 - Process Equipment
 - Order Fulfillment
 - Raw Material Handling
- Lean Manufacturing Consulting
- Operational Due Diligence
- Productivity Improvement
- Risk Assessment
- Supply Chain Strategy
- Sustainability
- Technology Assessment
- Transportation Analysis

PROCESS + EQUIPMENT DESIGN

- Conveyor Systems Design
- Material Handling Applications Design
- Packaging and Containerization
- Paint Finishing Systems Design
- Process Controls

ARCHITECTURE + ENGINEERING

- Architecture and Interior Design
- Civil Engineering
- Electrical Engineering
- Facility Planning and Programming
- Fire Protection and Plumbing Engineering
- ICT and Security Systems Engineering
- Mechanical Engineering
- Site Master Planning
- Structural Engineering

CONSTRUCTION

- Construction Management
- Design-Build Management
- Equipment Set and Tooling Installation Support
- Lump Sum and GMax Delivery
- Owner's Representation
- Pre-Construction Cost / Benefit Analysis
- Program / Project Management

SYSTEMS + OPERATIONS

- Automation and Control System Design
- Building Framing Systems
- Building Utility Systems
- Commissioning and Start-Up
- Conveyor Systems
- Industrial Ventilation and Dust Collection
- Interior Architecture Systems
- Material Handling Equipment Systems and Ops.
- Material Flow and Handling
- Paint Finishing Systems
- Power Systems Analysis
- Process Equipment Systems and Operations
- Thermal Process Design
- Vehicle and Pedestrian Traffic Flow Systems

FACILITY TYPES

- Assembly Plants
- Automated Warehouse and Logistics Facilities
- Casting Plants
- Climate-Controlled Distribution Facilities
- Coolers and Freezers
- Dry Storage Facilities
- Manufacturing Plants
- Paint Shops
- Research and Development Facilities
- Stamping Plants



COVER: New York Daily News Press Facility PREVIOUS PAGE: Woodward Aircraft Turbine Systems Rock Cut Campus TOP LEFT: NextDiesel Biodiesel Production Facility TOP RIGHT: Woodward Aircraft Turbine Systems Rock Cut Campus MIDDLE LEFT: LG Chem / Compact Power Battery Manufacturing Plant MIDDLE RIGHT: Deere-Hitachi Excavator Manufacturing Facility BOTTOM LEFT: Production Line BOTTOM RIGHT: GM Lansing Delta Township Assembly Complex

REPRESENTATIVE CLIENTS

BMW
Bosch
Brose
Cargill
Caterpillar
Delphi Automotive
Fiat Chrysler Automobiles
Ford Motor Company
GE Transportation
General Motors
Honda
Jaguar Land Rover
John Deere
LG Chem
Nestle
Nissan
Polaris Industries
Ryobi
Toyota
Valeo
Visteon
W.W. Grainger
Woodward
Zeledyne

OFFICE LOCATIONS

Birmingham, Alabama USA
Chicago, Illinois USA
Dearborn, Michigan USA
Detroit, Michigan USA
Greenville, South Carolina USA
Indianapolis, Indiana USA
Mexico City, Mexico
São Paulo, Brazil
Baroda, India
Abu Dhabi, UAE
Doha, Qatar
Jeddah, Saudi Arabia
Muscat, Oman

FOR MORE INFORMATION

Direct any questions to info@ghafari.com, and a regional representative will contact you to discuss how a Ghafari partnership can help your business thrive.