



DRIVING SUCCESS

Automotive Group

GHAFAARI

SPACE
TO
THRIVE



Our leading expertise and innovative approaches have made us *ENR's* #1 firm in the automotive sector for over 10 years.



Ghafari opened its doors in 1982 to bring new levels of quality and innovation to automotive facilities. Inspired by the complexity we observed in the field, we pioneered streamlined approaches and technological applications to help auto clients advance efficiency, elevate safety, and accelerate delivery.

Today, we are recognized as the leading EAC firm for the auto industry and continue to find new ways of supporting the field using lean methodologies and 6 Sigma principles. Our work has led to breakthroughs in efficiency and sustainability, including the world's first and largest automotive manufacturing plant to receive LEED Gold Certification.

MARKET SERVICES

CONSULTING

3D Building Information Modeling
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

High-Definition Laser Scanning
Integrated and Lean Project Delivery
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
Equipment Installation
Operational Due Diligence
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

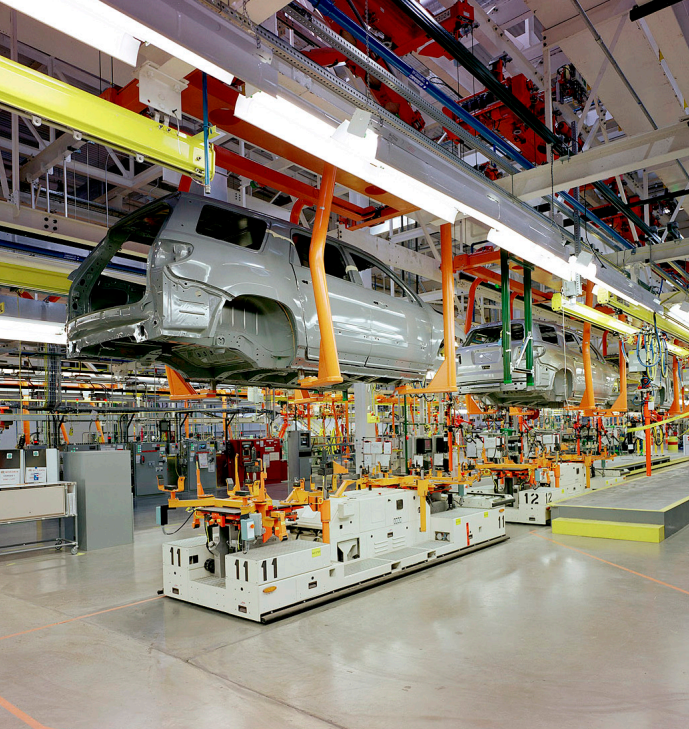
SYSTEMS + OPERATIONS

Building Enclosure and Exterior Architecture
Building Framing Systems
Building Utility Systems
Conveyor Systems
Interior Architecture Systems
Material Flow
Material Handling Equipment Systems and Operations
Paint Finishing Systems
Process Equipment Systems / Operations
Vehicle and Pedestrian Traffic Flow Systems

FACILITY TYPES

Assembly Plants
Body Shops
Casting Plants
Corporate and Support Buildings
Data Centers
Dynamometers
Energy Centers
Fluid Fill Tank Farms
Paint Shops
Powertrain Plants
Production and Support Facilities
Research and Development Facilities
Retail Service Centers
Security Buildings
Stamping Plants
Test Tracks and Labs
Utility Centers
Vehicle Shipping Facilities
Warehouse and Logistics Facilities

PREVIOUS PAGE, TOP LEFT, MIDDLE LEFT: GM Lansing Delta Township Assembly Complex **TOP RIGHT, BOTTOM RIGHT:** GM Powertrain V6 Engine Assembly Plant **MIDDLE RIGHT:** Chrysler Toledo South Supplier Park Complex **BOTTOM LEFT:** Ford Dealership Trustmark Program



REPRESENTATIVE CLIENTS

BMW
Brose
Delphi Automotive
Fiat Chrysler Automobiles
Ford
General Motors
Honda
Jaguar Land Rover
Nissan
Toyota
Valeo
Visteon
ZF

OFFICE LOCATIONS

Birmingham, Alabama USA
Chicago, Illinois USA
Dearborn, Michigan USA
Detroit, Michigan USA
Fort Worth, Texas USA
Grand Rapids, Michigan USA
Greenville, South Carolina USA
Indianapolis, Indiana USA
Mexico City, Mexico
São Paulo, Brazil
Baroda, India
Istanbul, Turkey
Abu Dhabi, UAE
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.