# **REAL RISKS. EFFECTIVE SOLUTIONS.**

# Improving ICT Infrastructure, Security, and Connectivity

**GHAFARI** 

# **WHO WE ARE**

# We are a collaborator, innovator, partner, guide, and advocate for our clients.

Ghafari is a global engineering, architecture, process design, consulting, and construction services firm with nearly 40 years in our industry. Every day, we apply our passion for client care, collaboration, and innovation to help businesses succeed and people thrive.

Our full-service, in-house team works together to meet the unique demands of each project. Working side by side, market experts and discipline leaders exchange insights to uncover new opportunities for efficiency. This rigorous collaboration allows us to bridge smart design with precise functionality.

# **OUR FULL RANGE OF CAPABILITIES**



Architecture + Interiors



Engineering



ICT + Security



Lean Consulting + vPlanner<sup>©</sup>



Process Engineering



### **GLOBAL LOCATIONS**

## Istanbul, Turkey **NORTH AMERICA** Birmingham, Alabama Chicago, Illinois Dearborn, Michigan (HQ) Detroit, Michigan Fort Worth, Texas Grand Rapids, Michigan Greenville, South Carolina Indianapolis, Indiana **MIDDLE EAST** Abu Dhabi, UAE Riyadh, Saudi Arabia Muscat, Oman **SOUTH AMERICA ASIA** São Paulo, Brazil Baroda, India

## **MARKETS**



Automotive



Aviation



Commercial



**EUROPE** 

Education



Government + Institutional



Health + Wellness



Industrial + Manufacturing



Workplace

# **STATS + RECOGNITION**

38

**YEARS** 

We've been a partner, innovator, and advocate for our clients since 1982.

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**RANKING** 

Building Design + Construction named us one of the Top 15 E/A Firms in the U.S. 40+

**COUNTRIES** 

Ghafari has completed projects in 43 countries around the globe.

#4

RANKING

For over 10 years, we have been in *Engineering News-Record's* Top 10 firms in the industrial and manufacturing sector.

# REPRESENTATIVE CLIENTS

American Airlines

**Azul Brazilian Airlines** 

Cargill

Chicago Department of Aviation

Chicago Park District

College for Creative Studies

Delta Air Lines

Erie Family Health

FedEx Express

**General Motors** 

John Deere

Oman Air

**Qatar Airways** 

SAEI / Saudi Arabian Airlines

Southwest Airlines

Toyota

**Turkish Airlines** 

United Airlines

U.S. Navy

Woodward Inc.

# ICT + SECURITY DESIGN CAPABILITIES

We strengthen operations around the world through customized data, security, and telecommunications solutions.

Our proven ICT + Security Group includes electrical engineers, telecommunication and electronic engineers, registered communications distribution designers, computer network designers, and accredited data center designers - all focused on improving the intelligence of facilities.

Our experienced team members have earned certifications from some of the world's leading organizations dedicated to advancing security, telecommunications, and information technologies.

### These certifications include:

- Accredited Tier Designers (Uptime Institute)
- Aviation Security Professional Managers (International Civil Aviation Organization)
- Certified Technology Specialists-Design (Avixa)
- Registered Communications Distribution
  Designers (Building Industry Consulting Service
  International)





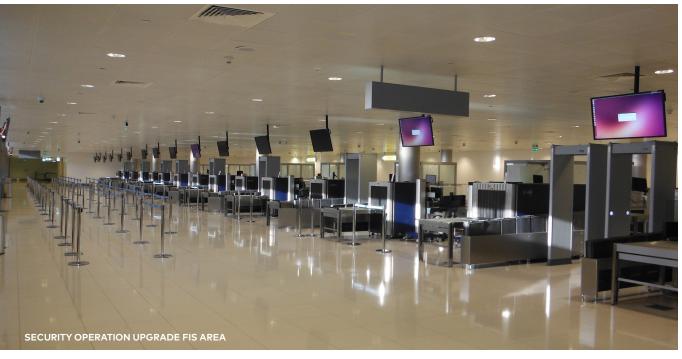


















#### ICT + AUDIOVISUAL ENGINEERING

**Asset Tracking** Audiovisual Systems **Building Management Systems** Command Control Facilities Data / Telecommunications Infrastructure Data Center Active Component Design DC Lighting Dense Wavelength Division Multiplexing Local Area Networks Operational Control Rooms Outside Plant Fiber Optic Networks Master Antenna Television / Cable Television / Internet Protocol Television Master + Ethernet Clock Systems Mission-Critical Systems Smart Building Integration Platforms Video Conferencing + Audio Systems Wireless Local Area Networks

### **SECURITY ENGINEERING**

Aviation Security (Threat / Risk Analysis)
Electronic Safety and Security (CCTV + ACS
Engineering)
Intercom Systems
Access Control and Security
Security Design
Security Risk Assessments
Security Upgrades
Security System Audits

### LIFE SAFETY ELECTRONICS

Area of Rescue Systems
Fire Alarm / Mass Notification Systems
Public Address Systems
Safety Design
Smoke Travel Simulations with FPE Tool

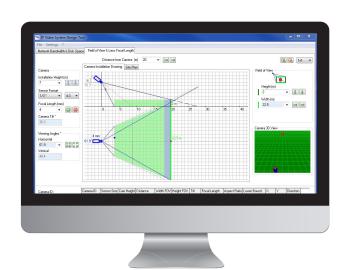
### **TECHNOLOGY**

# We stay at the forefront of client-driven innovation to improve delivery, cost, and quality.

Ghafari was founded on the promise of technological innovation. Each day, we continue to raise the bar – finding new ways to harness technology in order to help clients do their best.

### **BUILDING INFORMATION MODELING**

Early on in our search for greater efficiency, we began using building information modeling (BIM) to simplify complex projects. BIM empowers integrated teams with a shared understanding of project intricacies. A BIM-enabled approach unites our design team with the owner and contractor, allowing us to make collective decisions that are better informed and drive efficiency in project delivery. More than just a visualization software, BIM enables a team-wide exchange of critical data, facilitates interactivity among building systems, and lets us tackle project challenges with greater intelligence and deeper analysis.

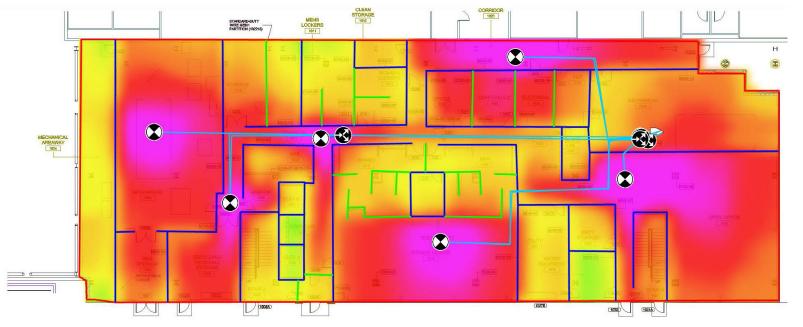


#### **SOFTWARE WE USE**

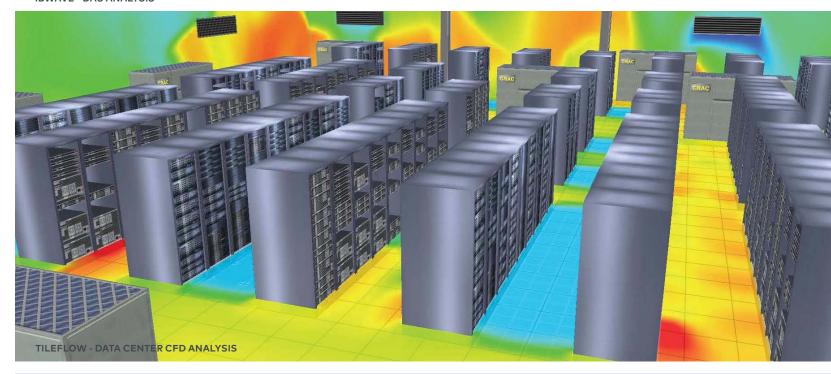
Our ICT + Security Group uses the following software programs:

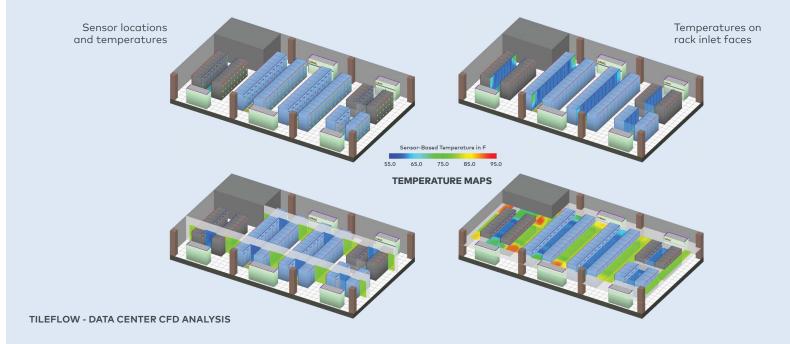
- Autodesk AutoCAD
- Autodesk Revit
- EASE Enhanced Acoustic Simulator for Engineers
- Ekahau Wi-Fi Design
- iBwave
- IP Video System Design Tool
- Tile Flow Data Center CFD Analysis





IBWAVE - DAS ANALYSIS





# FOR MORE INFORMATION

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