



# *GL Communications Inc.*

## **GL Consulting Services** **Telecommunications - Engineering**



### **Company Overview**

- ◆ A Hi-Tech Company with 60+ People, Founded in 1986
- ◆ BS / MS / PhDs in Math, Science, Telecommunications, Engineering
- ◆ Technical Consulting, Advanced Software, Digital Signal Processing
- ◆ Telecom Infrastructure for Transportation Industry
- ◆ Public Safety and Commercial Land-Mobile Radio Systems
- ◆ Fiber Optic, Microwave, Satellite and Wireless Networks
- ◆ Local and Wide Area Networks

**Consulting Services**  
**Design Tools**  
**Customers**  
**Success Stories**  
**Team**  
**Contacts**

# Consulting Services

GL has expertise, and provides engineering and technical consulting in the following areas

## Technical



- ◆ Project Management
- ◆ Proposal Development
- ◆ Communications Systems Design
- ◆ System Design and Planning
- ◆ Procurement
- ◆ Vendor Analysis and Selection
- ◆ Cost Estimates

## Engineering



- ◆ Telecom System Implementation
- ◆ Homeland Security Surveillance CCTV System Design
- ◆ Site Survey, Tower Structural Analysis and Assessment
- ◆ Site Location Design, Site Lease/MoU, Site Acquisition Support
- ◆ Frequency Planning, Coordination, Interference Studies
- ◆ Hardware Installation, Field Testing and Troubleshooting
- ◆ FAA Determination, FCC Licensing, Zoning and Permits

## Terrestrial Communications System

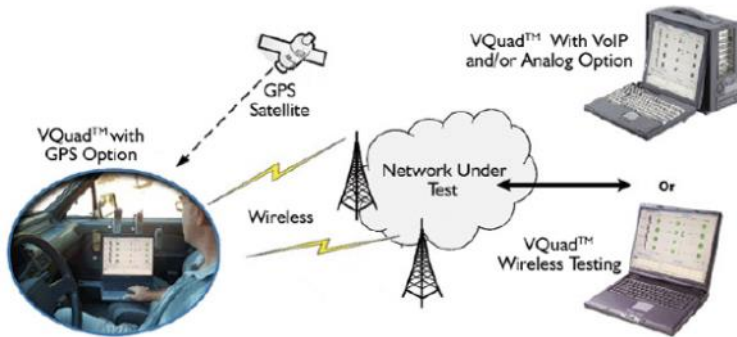


- ◆ Commercial/Public Safety Communications
- ◆ Microwave Network Design
- ◆ Path Profile, Path Survey and Path Availability Analysis
- ◆ Fiber-Optic Cable System Design, Installation and Inspection
- ◆ Optical Link Budget, OTDR and End-to-End Power Loss Testing
- ◆ SONET and Gigabit Ethernet Networks Design and Implementation
- ◆ Traffic Monitoring and Erlang Analysis
- ◆ Leased T-1 Interconnect, DSL, Frame Relay, ISDN Networks
- ◆ LAN, MAN, WAN, VOIP Design and Implementation

# Consulting Services

GL has expertise, and provides engineering and technical consulting in the following areas

## Wireless Communications



- ◆ GSM, CDMA, 3G
- ◆ Cellular, PCS, SMR, ESMR, LMR Systems Engineering
- ◆ Simulcast Trunked Radio System and Interoperability Solutions
- ◆ Antenna System Design, Propagation Analysis
- ◆ Wireless Voice Quality Testing and Analysis
- ◆ Off-air GPS based Drive Testing of RSSI Field Strength
- ◆ Wireless Protocol Analysis, Network Emulation
- ◆ WLAN, Wi-Fi and WiMax Networks Design

## Satellite Communications Systems



- ◆ Software Development
- ◆ Test and Control Plans Development
- ◆ TDMA/CDMA Expertise
- ◆ Propagation Studies and Link Analysis

## IT Solutions



- ◆ Digital Signal Processing
- ◆ Call Capture Analysis
- ◆ Customized Software and Hardware Development
- ◆ Network Management Solutions
- ◆ Database Design and Configuration



# Design Tools

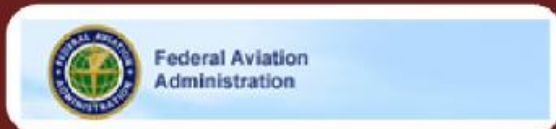
**GL has developed, in house, an extensive array of advanced tools design and engineer wireless/Cellular and digital microwave networks.**

Our customers in wireless and transit industry throughout the United States have used these tools to their benefit.

GL's state-of-the-art design tools include:

- ◆ Site Location Mapping, Service Area Boundary Contours
- ◆ Microwave Inter-Connect, Path Profiles, Path Availability
- ◆ Link Budget Analysis
- ◆ Radio Frequency Coverage Prediction
- ◆ Inter-modulation and Interference Analysis
- ◆ Median Receive Signal Level Field Strength Prediction

## Customers (Not Exhaustive)



# Representatives

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