

# RESUME

## Mark A. Katchever Design Group Manager

### RELEVANT PROJECTS

General Motors Corporation:  
World HQ Renaissance Center  
Warren Tech Center Campus  
HWS Lincoln NE Regional Airport

### YEARS OF EXPERIENCE

Twenty Five

### PROFESSIONAL SOCIETIES

BICSI  
-Building Industry Consulting Service  
International Inc.  
  
CAM  
-Construction Association of Michigan

### EDUCATION/CERTIFICATIONS

Building Industry Consulting Service  
International, Inc. (BICSI). 1999-Present  
  
Sumitomo ABF Certified Designer  
1997-Present  
  
AFL Fiber Systems Certified Designer  
2002-Present  
  
Leviton Systems Certified Designer  
2001-Present  
  
Cablofil Inc. Certified  
Installer/Designer 2001-Present  
  
BICSI Grounding and Bonding  
Certification 2001-Present  
  
IBEW Local 58 Detroit Michigan  
Union Member 1986-1997

Performance driven and results oriented professional with 25 years experience in the Telecommunications industry. Thirteen years hands on experience related to inside and outside plant infrastructure installation and the past twelve years experience focused on physical infrastructure designs as well as design group management. Proven leader responsible for a team of design engineers and ACAD technicians across all aspects of system designs. Developed along with others specific design standards utilized internally to increase efficiency, improve quality and decrease the need for re-engineering. Demonstrate exceptional ability to listen and communicate with the customer to meet their business objectives.

### Office / Research and Development Labs

**General Project Responsibilities.** Design and engineered new network physical infrastructure for administration areas. Design included but not limited to network cabinet elevations, electronics, power requirements, equipment placement, cable tray layout, data, voice locations, fiber optic cable sizing, grounding/bonding, bill of materials and routing.

#### General Motors Corporation North America Operations Project 3498

USA, Canada, and Mexico  
Between 1996 and 1999 successfully completed over 120 physical infrastructure designs for GM manufacturing facilities. This project achieved common network architecture for GM throughout North America and become a model for their global deployments.

#### General Motors Corporation World Headquarters Renaissance Center

Detroit, MI  
120+ Floors throughout four high rise towers. Completed designs for all TR closet upgrades for fiber backbone, grounding, UPS systems and new Cisco network switches.

#### General Motors Corporation Warren Tech Center Campus High Speed Fiber Backbone

Warren, MI

#### General Motors Corporation EGM Design Center

San Francisco, CA

#### General Motors Corporation NAO Treasury Offices Data Center

New York, NY

#### General Motors Corporation VSSM Atlanta Georgia Regional Office Move

Atlanta, GA

**General Motors Corporation Flint South Campus Electric/Gas/Water Meters**

Flint, MI

Site surveys and designs were successfully completed.

Note: These systems are monitoring remote meter locations using CDMA and solar technology developed and integrated by Diversified Design Services.

**General Motors Corporation Lansing Grand River Electric/Water Meters**

Lansing, MI

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Lansing, MI

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## **Manufacturing**

**General Motors Corporation Truck Assembly GMT 800 Programs**

Lansing, MI

**General Motors Corporation Wixom Powertrain**

Wixom, MI

**General Motors Corporation Brighton Powertrain**

Brighton, MI

**General Motors Corporation Romulus Engine and Campus**

Romulus, MI

**General Motors Corporation Livonia Engine Plant**

Livonia, MI

**General Motors Corporation Warren Transmission Plant**

Warren, MI

**General Motors Corporation Lansing Delta Township Assembly Plant**

Lansing, MI

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## **International/Global Projects**

**General Motors Corporation SGMW DaeWoo Motors**

Liu Zhou, China

**General Motors Corporation de Mexico Headquarters**

Mexico City, Mexico

**General Motors Corporation de Toluca Assembly**

Toluca, Mexico

**General Motors Corporation de Silao Assembly**

Silao, Mexico

**General Motors Corporation de Ramos Arizpe**

Toluca, Mexico

### **General Motors Corporation Eisenmann Paint Shop**

Zaragoza, Spain

### **General Motors Corporation Asia Pacific Headquarters Campus**

Shanghai, China

### **General Motors Corporation Oshawa Truck Assembly Plant**

Ontario, Canada

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## **Infrastructure Designs Other**

### **Motor City Casino**

Detroit, MI

Participated with other engineering team members in collaboration of the entire facility infrastructure designs for Data Center and Gaming floors inclusive of Fiber, UTP cabling, Wireless access points and voice backbone systems were successfully completed. Provide materials and labor costs estimates for customer budgetary evaluations.

### **Lincoln Nebraska Airport**

Lincoln, NE

Worked with HWS to design a “campus” Airblown fiber backbone system capable of future expansion with facility phase planning in mind to minimize future expansion costs. This included surveys of existing outside conduit pathways and additions to that system for new underground conduit systems.

### **Detroit Metro Airport New Terminal Building**

Romulus, MI

Contracted by prime installation contractor for the backbone fiber installation to review shop drawings and specifications. Provided consultation and updated design drawings to improve material and installation costs. Provided onsite consultation during the installation process.

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## **Professional Experience**

### **Diversified Design Services (Engineering Group-3.5 years)**

Manage and direct the design activities of an Eight-person design and CAD team to successfully complete physical infrastructure designs at General Motor’s, Chrysler, Health Care and Learning institution facilities located throughout North America, Mexico, Canada and globally in China and Spain.

### **Motor City Electric Technologies, Inc. (Design Team Leader-2.5 years)**

Manage and direct the design activities of a seven-person design and CAD team to successfully complete to date 121 physical infrastructure designs at General Motor’s facilities located throughout North America, Mexico and Canada.

Provide direct support to GM Network Engineering Center Management and its Design Team. Communicate design requirements and develop project estimates for submission to GM NEC.

### **Clover Technologies, Inc. (Design Team Leader-5 years)**

Manage and direct the design activities of a six-person design engineering team to successfully complete 160 physical infrastructure designs at General Motor's facilities located throughout North America, Mexico and Canada.

Manage and direct the design activities of a seven-person CAD department to successfully complete designs/As-build packages for General Motor's, Chrysler, Ford and Institutional facilities located throughout North America, Mexico and Canada.

Provide direct support to GM Network Engineering Center Management and its Design Team. Communicate design requirements and develop project estimates for submission to GM NEC.

Instrumental in the development of the General Motors standard for fiber/coax hybrid broadcast video systems in use throughout GM administration and manufacturing facilities.

### **Clover Technologies, Inc. (Design Engineer-3 years)**

GM/NAO 3498 Project: Develop voice/data fiber backbone and horizontal infrastructure designs. Personally completed 32 projects within GM Administration and Manufacturing facilities.

### **Clover Technologies, Inc. (Installation Project Manager/Crew Leader-9 years)**

Installation PM responsible for installation projects of varying crew and project sizes for Automotive, Educational and Institutional facilities throughout North America, Mexico and Canada.

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## **Professional Registrations**

**BICSI** (1999 – Present)

Building Industry Consulting Service International Inc.

**CAM** (2006- Present)

Construction Association of Michigan