

RESUME

Graham T. Herbst Systems Engineer

RELEVANT PROJECTS

General Motors Corporation

YEARS OF EXPERIENCE

Nineteen

PROFESSIONAL SOCIETIES

BICSI

-Building Industry Consulting Service International Inc.

CAM

-Construction Association of Michigan

EDUCATION/CERTIFICATIONS

ABF Design and Estimating,

- Sumitomo Electric

ABF Fiber Installation Training

- Sumitomo Electric

CCTV Certified Designer

- Clover Technologies

AFL Certified Fiber Consultant

- AFL Telecommunications

2002-Present

Leviton Systems Certified Designer

2001-Present

Grounding Protection Fundamentals for Telecommunication Systems

-BiCSi DD120

2001-Present

Cablofil Certified Designer

- Cablofil Cable Management

2001-Present

Volition Certified Designer

-3M Volition Cabling Systems

Computer Hardware Technician

- Control Data Institute Southfield, MI

IBEW Local 58 Detroit Michigan

Union Member 1990-1997

As a systems design engineer, I have delivered innovative, customized infrastructure design solutions that meet current and future telecommunications needs. I provide a seamless blend of services that spans the telecommunications spectrum. From initial planning through construction, I will help ensure your companies "fourth utility" telecommunications infrastructure will support your companies financial and technology goals.

Office / Research and Development Labs

GM Facilities: 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 – WTC R&D RSB Renovation

Warren, MI

Designed and engineered new physical Infrastructure network and coordinated the decommission of the old physical network.

General Motors Corporation – VEC Podium Building

Warren, MI

Designed and engineered new physical Infrastructure network and coordinated the decommission of the old physical network.

General Motors Corporation – Central Engineering Building Renovation

Warren, MI

Designed and engineered new physical Infrastructure network and coordinated the decommission of the old physical network.

General Motors Corporation – Pontiac Powertrain Engineering

Consolidation

Pontiac, MI

Designed and engineered new physical Infrastructure network and coordinated the decommission of the old physical network.

General Motors Corporation – R&D RML Renovation

Warren, MI

Designed and engineered new physical Infrastructure network and coordinated the decommission of the old physical network.

General Motors Corporation – VEC North Building Renovation

Warren, MI

General Motors Corporation – VEC South Building Renovation

Warren, MI

General Motors Corporation – Cadillac Building Renovation
Warren, MI

General Motors Corporation – VEC West Building
Warren, MI

General Motors Corporation – Design Center Building
Warren, MI

General Motors Corporation – GSB1 Building Renovation
Warren, MI

General Motors Corporation – GSB2 Building Renovation
Warren, MI

General Motors Corporation – Manufacturing A Building Renovation
Warren, MI

General Motors Corporation – Manufacturing B Building Renovation
Warren, MI

General Motors Corporation – Manufacturing C Building Renovation
Warren, MI

General Motors Corporation – Engineering North Building Renovation
Warren, MI

General Motors Corporation – Engineering South Building Renovation
Warren, MI

General Motors Corporation – Engineering West Building Renovation
Warren, MI

General Motors Corporation – Engineering East Building Renovation
Warren, MI

**General Motors Corporation – Pontiac Powertrain Engineering New
Server/Computer Room**
Pontiac, MI

General Motors Corporation – Troy Tech Park Network Upgrade
Troy, MI

General Motors Corporation – 7000 Building Renovation
Warren, MI

General Motors Corporation – VPC Building Renovation
Warren, MI

General Motors Corporation – Emissions Building Renovation
Warren, MI

General Motors Corporation – Great Lakes Tech Center Renovation
Flint, MI

General Motors Corporation – Ottawa Tower IS&S Relocation
Pontiac, MI

General Motors Corporation – CCO Building Renovation
Warren, MI

General Motors Corporation – 1420 and 1450 Building Renovations
Troy, MI

General Motors Corporation – Warren Tech Center High Speed Backbone Core Upgrade

Warren, MI

General Motors Corporation – Pontiac PCC Decommission

Pontiac, MI

General Motors Corporation – Denver Emissions Testing Upgrade

Denver, CO

General Motors Corporation – Part Fabrication Building Upgrade

Warren, MI

General Motors Corporation – Building 94 New Construction

Milford, MI

Warehouse

General Project Responsibilities

Design and engineer new network physical infrastructure for plant floor and administration areas. Design included but limited to network cabinet elevations, electronics, power requirements, equipment placement, cable tray layout, data and voice locations, fiber optic cable sizing and routing, and physical wireless network installations.

General Motors Corporation – Edina SPO

Edina, MN

General Motors Corporation – Reno SPO

Reno, NV

General Motors Corporation – Davidson SPO New Construction

Flint, MI

General Motors Corporation – Columbus SPO

Columbus, OH

Manufacturing

General Project Responsibilities

Design and engineer new network physical infrastructure for plant floor and administration areas. Design included but limited to network cabinet elevations, electronics, power requirements, equipment placement, cable tray layout, data and voice locations, fiber optic cable sizing and routing with best installation practices.

General Motors Corporation – Davidson SPO New Construction

Flint, MI

General Motors Corporation – Fairfax Assembly Plant

Fairfax, KS

General Motors Corporation – Moraine Assembly Plant
Moraine, OH

General Motors Corporation – Lordstown Assembly Plant
Lordstown, OH

General Motors Corporation – Doraville Assembly Plant
Doraville, GA

General Motors Corporation – Wilmington Assembly Plant
Wilmington, DE

General Motors Corporation – Livonia Engine CORE Switch Upgrade
Livonia, MI

Infrastructure

General Motors Corporation – VEC Parking Deck New Construction
Warren, MI

General Motors Corporation – Global Parking Deck New Construction
Warren, MI

Professional Experience

Diversified Design Services (Engineering Group-3.5 years)

Systems Engineer- Provided estimating, quoting, design, and as-built documentation for ABF/UTP or conventional fiber/UTP cable infrastructures. Provided estimating, quoting, design, testing requirements, and as-built documentation for Broadband Systems, and TV Distribution Systems. Broadband and TV Systems were often integrated with existing Broadband, CATV feeds, Satellite feeds, and Off-Air TV reception.

Motor City Electric Technologies, Inc. (2.5 years)

Systems Engineer- Responsible for the research, design, programming, costing, certifying, and documenting of Communications Systems that require Data, Video, Voice, Audio, and/or Structured Cabling Products for Motor City Electric Technologies Services. Technical knowledge to integrate the various products available to Motor City Electric Technologies into complete, cost effective design and integrated solutions that meet the project requirements and customer expectations. Provide technical support during the design and implementation process to assure the installation meets all technical requirements in the Scope of Work.

Clover Technologies, Inc. (Engineering Group-6 years)

Engineer- Responsible for the research, design, programming, costing, certifying, and documenting of Communications Systems that require Data, Video, Audio, and/or Structured Cabling Products and Clover Services. Technical knowledge to integrate the various products available to Clover into complete, cost effective design and integrated solutions that meet the project requirements and customer expectations. Provide technical support during the design and implementation process to assure the installation meets all technical requirements in the Scope of Work.

Broadcast Video/CCTV Engineer-Design for ABF or conventional fiber/coaxial cable infrastructures integrated with existing Broadband and/or Satellite/Off-Air TV Distribution Systems were successfully completed.

Clover Technologies, Inc. (Installation Journeyman 7 years)

Worked on many various projects installing copper, coax , and fiber optic cabling in a wide range of environments. Including outdoor aerial, underground, and all aspects of indoor cabling. Testing and documenting results, and creating as-builds.

The following is a condensed list of facilities where I installed structured cabling infrastructure:

TACOM US Civilian/Military Facility

Warren, MI

William Beaumont Hospital

Royal Oak, MI

Detroit Medical Center (DMC) – All connecting Hospitals

Detroit, MI

Owens Of Illinois

AAA of Michigan

Traverse City, MI

Ford Motor Company

Dearborn, MI

Foreman/Crew leader: The following is a facility where I directed a 4 man crew to install structured cabling infrastructure successfully:

Ford Motor Company

Design Center

Dearborn, MI

Product Development Center

Dearborn, MI

Ford Motor Company: Conducted communication audits on several facilities, developed a “Plan of Action” to get communication rooms to industry standards.

Professional Registrations

BICSI (1999 – Present)

Building Industry Consulting Service International.

CAM (2006- Present)

Construction Association of Michigan