



MISSION STATEMENT

“Intellect Corporation will be a leading supplier of technologically advanced solutions for today's systems engineering, electrical, security, ITS, and telecommunications users. Through monitoring of customer needs and solutions development, Intellect will continue to be in the forefront of knowledge and service to it's Clients.

Our commitment is to provide excellent performance using a detailed quality control procedures and expert staff. Only then can we assure our customers the highest degree of professional service.”

Rohit H. Patel
President

List of Clients



The following is a partial list of Intelect clients.
Please call if you require an updated list.

Transportation

| | |
|-------------|--------------------------|
| AC Transit | Oakland, CA |
| CARTA | Chattanooga, TN |
| COLTS | Scranton, PA |
| DDOT | Detroit, MI |
| DTC-DART | Wilmington, DE |
| FWTA | Fort Worth, TX |
| KCATA | Kansas City, KS |
| LIRR | Long Island, NY |
| MCDOT | Montgomery County, MD |
| MTA | Baltimore, MD |
| MTA | Metro-North Railroad, NY |
| NYCT | New York, NY |
| RRTA | Lancaster, PA |
| SEPTA | Philadelphia, PA |
| SMART | Troy, MI |
| WMATA | Washington, DC |
| Others..... | |

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State and Local Government

Anne Arundel County
Baltimore County
City of Baltimore
City of Laurel
Howard County
Kansas City
Maryland Stadium Authority
New York City
Ocean City
State of Delaware
State of Maryland
Western Correctional Institute, Cumberland
Others

Systems Consultants

ARINC Research Corporation
Clifton, Weiss & Associates
Crain and Associates
D&Z Transportation Division
De Leuw, Cather (Parsons Transportation)
DMJM + Harris
Gannett Fleming
Lewis & Zimmerman
Moffat and Nicoles
Parsons
RSD Inc.
Soots Consultants
Others.....

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Private Industry

Baltimore Ravens, MD
Blumenthal & Khan, Baltimore, MD
Chance Motor Coach, KS
Computer Sciences Corporation, MD/VA
Cubic Corporation, San Diego, CA
Digital Recorders, Research Triangle Park, NC
Echovision, Inc., Melrose, MA
Ericsson/GE, Inc., Lynchburg, VA
Gill Simpson, Baltimore, MD
Honeywell, Hunt Valley, MD
Lightning Electric Corporation, NJ
Loronix Information Systems, Inc., Durango, CO
Motorola Communications, Inc., Hanover, MD
Multisystems, Inc., Cambridge, MA
Neoplan, Inc., CO
New Flyer, Canada & US
Nextel Communications,
North American Bus Industries, Anniston, AL
Orbital Sciences Corporation, Germantown, MD
Signal Perfection Limited (SPL), MD
Sprint Corporation, KS
Sunrise Sign Systems, Inc., Pembroke, MA
Transportation Management Solutions, MD
Urban Transportation Associates, Cincinnati, OH
Victory Race Plate, MD
Others

Capabilities

The following is a partial list of Intelect capabilities. Please call if you require an updated list.



Consulting Services

- Needs Assessment
- Specification Development
- Project Management
- Procurement Assistance
- Computer Aided Design Services (CAD)
- Product Development
- Trade Analysis
- Surveys and Inspections
- Concept Exploration
- Training

Installation & Maintenance Services

- Electronic Systems Installation and Troubleshooting
- CCTV and Access Control Systems Installation
- Fiber Optic Campus and Ring Installation and Splicing
- Wireless Communications Systems Installation
- Medium & Low Voltage Electrical Installation and Inspection
- Rail and Bus Electronic & Low Voltage Installation
- Kit Design, Fabrication and Preparation
- Inspection Services and Acceptance Testing

Capabilities

The following is a partial list of Intelect capabilities. Please call if you require an updated list.



Qualified Personnel

Intelect numbers over sixty full-time technical and support staff capabilities include:

- Assemblers
- Bench Technicians
- Cable Technicians
- Cable pullers
- Carpenters
- Cellular site specialists
- Construction Managers
- CCTV/Security Technicians
- Computer Aided Design Draftsmen
- Electrical Engineers
- Electricians including Masters
- Electrical Apprentices/Helpers
- Electronic Technicians
- Field Installers & Helpers
- Fusion Splicers
- Inspectors
- IT Engineers and Technicians
- Network Engineers
- Network Technicians
- Project Managers
- Product Managers
- Qualified Safety Coordinators
- Quality Managers
- RF Engineers
- Software Engineers
- Systems Engineers
- Systems Administrators
- Tower Climbers

Capabilities

The following is a partial equipment list owned by Intellect. Please call if you require an updated list.



Facilities

Company-owned facilities covering 45000+ sq. ft. and including:
Offices and meeting rooms and showroom
Secure and controlled storage
Testing and assembly shops

Vehicles

Bucket Trucks
Fleet of well equipped service vans
Pick-up trucks
Mobile Compressors

Tooling & Instrumentation (Call for complete list)

Multimeters
PC's & Notebooks w/ Specialized Software
Hand-Held test color monitors
Clamp-On Ground Resistor Testers
Line Tracers
Antenna Testers
HP Signal Generators
OTDRs
Cable Blowing Machines
Fiberglass Rods
GB Cyclone Pipe Benders
Pipe Threaders
Band Saws
Core Drills
Hammer Drills
Reel Jacks
Generators
Various specialized crimpers
Small Power Tools and Hand Tools
Rotozips
Cutoff Saws
Nailers
Dust Collectors
Airless Paint Sprayers
And much, much more.....

Areas of Expertise



- Electrical and Electronic Subsystems
- Security Systems including Surveillance, Closed Circuit Television, Access Control & Intrusion Detection
- Intelligent Transportation Systems
- CAD/AVL (Computer Aided Dispatch/Automatic Vehicle Location) Systems
- Intercom and Public Address Systems
- Voice and Next-Stop Annunciators
- Obstacle Detection Devices
- Automatic Passenger Counting Systems
- Wireless RF Communications
- Telecommunications Systems
- Fiber Optic and Wireline Cable Systems

In addition to designing and integrating these technologies, Intelect Corporation is also a Value Added Reseller for equipment related to these systems.

Consulting Services



Intellect Corporation is a full service engineering consulting and systems integration firm offering a full range of services to its clients. Since Intellect Corporation was established, the firm has provided professional consultation services for systems design and recommendations for:

- ◆ Intelligent Transportation Systems (ITS)
- ◆ Public Safety Agencies
- ◆ Transit Properties
- ◆ Commercial and Private Applications

Our experience includes all levels of analog and digital communications systems including RF from low band VHF up through 900 MHz; conventional to trunked and single site to wide area simulcast. We have additional background in GPS, CAD/AVL systems, microwave from 2 GHz to 35 GHz; latest in security systems; PA and intercom communications systems; fiber optic and wireline system design.

Intellect's approach seeks out client needs and inputs, formulates unbiased professional advice, and incorporates the most relevant technology and product in recommended solutions.

Specifications Development



One of the most important aspects to consider when planning systems procurement, enhancement, or integration, is the specifications document used to solicit vendors.

Due to rapid changes in technology, systems tend to be complex. Therefore, it is critical that the customer adopt the most valuable approach to meet needs while maintaining cost effective solutions. Accordingly, after all planning and customer needs have been established, the significant element to complete the process is the proper development of the specifications document.

Intellect Corporation offers broad experience in the development of specifications for complex systems. The specification must allow potential vendors to clearly understand the requirements and functional needs. At the same time, care must be taken to avoid noncompetitive elements. We are familiar with these requirements and how they relate to a specifications document achieving the correct end result. At Intellect, we have developed “quality control and sense rating” into our development process which allows a completed specification to be legal, technically precise, and detailed enough such that prospective vendors can bid accurately.

Intellect’s expert staff, through development of information obtained by surveys, interviews, research, inventory verification, and analysis, then prepares the specification to the customer’s need. This information is incorporated into a detailed report that is thoroughly reviewed with the customer for his/her inputs and comments. Only then are the final specifications produced to be used for solicitation.

Design, Installation, and Maintenance Services



Intelect Corporation offers a wide range of design, installation, and maintenance services to support the systems marketplace in the public and private sectors. We have experience with a broad range of equipment including:

- ◆ Electrical and Electronic Subsystems
- ◆ Security and Safety systems
- ◆ Intelligent Transportation Systems
- ◆ Communications-Aided Dispatch / Automatic Vehicle Location
- ◆ Wireless Communication Systems
- ◆ Fiber Optic and Wireline Networks

Our in-house staff of Engineers and Project Managers will design and engineer systems to your specifications, and oversee our licensed Electricians and certified Technicians who will perform quality installations wherever required - at our fully equipped storage and installation facility in Baltimore, or in the field.

At Intelect we monitor quality and safety throughout our processes under our QMS Quality Management System, and our Safety Procedures. Additionally, our installations comply with building codes, state and local regulations, and all transit property regulations that apply.

As an added service, Intelect offers after-warranty maintenance and repair services. These services will be of particular interest to customers who wish to outsource to supplement their in-house staff, or who simply prefer outsourcing such tasks as a matter of convenience and quality care of their valuable assets. The Company can also provide detailed preventive maintenance plans to ensure the client's systems are operating within original manufacturer's specifications.

Fiber Optic & Wireline



Intellect Corporation provides turnkey Fiber Optic & Wireline Network design and installation services to City, County, State and Federal agencies, and to Transit and Educational facilities.

Our expert Team of Engineers, Project Managers, Construction Managers, Electricians and Cable and Fiber Installers and Splicers has installed miles of outside plant and structured building cable installations.

Our state of the art equipment includes a cable blowing machine that can place up to 20,000 feet of fiber in each direction. This machine has also leveraged our cost per foot efficiencies as it is capable of blowing up to 300 feet of cable per minute.

Some of our more recent customers include The City of Baltimore, The Maryland Transit Authority, and Camp David.

Communication Systems



Intellect Corporation designs and installs Communications Systems including radio communications systems from 30 MHz up through 900 MHz .

Intellect has been contacted by the MTA to design, install and test a Tunnel Radio Communication System with a Supervisory Alarm Monitoring and Control System. Work will progress through eight underground subway stations, five miles of dual tunnel, two rooftop antenna sites for off-air interface with the MTA's above ground 490 MHz simulcast trunked radio sites, and a central communication site for SAMCS. The TRC will provide dual-band capability for the 8-channel MTA 490 MHz (UHF) trunked simulcast radio system and the 28-channel City's 800 MHz trunked simulcast radio system with a port ready-to-use for the City's 800 MHz system interface. The RF signal will be distributed in the tunnels via the combination of leaky coaxial cable and point source antennas driven by individually fed bi-directional amplifiers (BDA's), one for each frequency band 490 MHz and 800 MHz, located in the tunnel cross-passages. RF-on-Fiber technology will be used as a means of RF transport. The overall system includes provision of equipment such as BDA's, RF-on-Fiber transceivers, RS-232 fiber optic line drivers, leaky coax, mounting hardware, fiber optic cables and fiber management hardware, SCADA hardware, software for the SAMCS, and UHF RF interface equipment.

Additionally, Intellect will provide Metro Off-Air Coverage Extenders (MOCE) systems to extend the 490 MHz UHF trunked simulcast radio system coverage in four heavy rail Metro facilities.

Work is presently underway to meet the 600 calendar day schedule.

Security Surveillance



Intellect Corporation, specialists in security systems including: CCTV surveillance, access control, and intrusion detection systems, has over 30 years experience in the security industry. Our security services include consulting, project management, installation, design, training, and maintenance and repair on a broad range of analog to digital based equipment. In addition, Intellect is a Value Added Reseller for products such as Loronix Digital recording systems, Vicon, Javelin, Crestline, and a multitude of other suppliers.

Our staff has extensive experience in the design and successful implementation of security system applications. We work with our clients to analyze specific needs and project requirements in order to determine the best application of technology in the most effective manner. After an installation has been completed, and all specified equipment provided, Intellect follows through with its customers to ensure their satisfaction.

CCTV technology is constantly changing and Intellect stays current through industry membership organizations, conferences, industry reports, periodicals, and customer and supplier feedback. Whether it's providing digital surveillance equipment on transit buses or installing access control systems for building security, Intellect will provide high quality service regardless of project complexity.

Intellect Corporation also offers a wide range of installation and maintenance services to support the security systems marketplace.

Kit Design and Fabrication



There is a growing need in the industry to improve operational efficiencies when installing complex equipment at customer owned locations, vehicles, and facilities. These installations may require robust electrical/electronic components to be assembled as customized kits. The kit could consist of some form of mounting plates, in either a rack/cabinet or enclosure. Electronic or mechanical components may be mounted with all the necessary hardware, wiring harnesses, plugs and socket connections. These kits must be well designed in regard to form, fit and function; they must be easy to install; be fault-free; and meet electrical and environmental standards.

An important part of design is to establish a “stable” of readily available kit components, such as plug shell inserts and components that are equivalent in reliability to, for example, Mil-Spec designs, but less costly and designed for heavy-duty commercial use.

A second feature of kit design is the need for proper kit assembly techniques and quality control. Most systems are designed to allow simple module replacement in the event of a system component failure to eliminate as much down time as possible for the user. Accordingly, kit assembly and fabrication requires a high degree of quality work and quality control.

Intel Corporation provides complete design and fabrication services for installation kits. We work with our customers to provide kits that are rugged, reliable, and cost effective. Our in-house services include custom cable assemblies, custom metal design, and procurement, component assembly, and testing. Fabrication and assembly is performed at our premises by skilled product managers, engineers, and technicians.

Training



Intellect offers training to enable the end- user to understand and operate the systems they have implemented.

These training services are professionally developed with Intellect personnel, original equipment manufacturers, and feedback from the customer. This interactive relationship between Intellect and it's customers allow the training session to be more informative and responsive to specific client needs. Training sessions can be structured to:

- Meet clients unique requirements
- Train the trainer
- Train the users - operations and maintenance
- Provide an overview for large audiences including management

Intellect Corporation can supply all necessary material based on the particular equipment and systems belonging to the customer. Materials may consist of handouts, overheads, user manuals, reference materials, and hands-on training. Intellect can also personalize material to include names, locations, administrative instructions and client specific details.

In addition, Intellect Corporation can train the customer's staff through a maintenance service contract that includes on the job training. The objective is to get the end- user more at ease with the equipment they own and eventually be self reliant in the operation and maintenance of their equipment.

Certified MBE/DBE



Intelect is a certified MBE in many areas across the country. Our certifications are renewed as required. Some, current and past certifications are listed below. If your need is not listed, please call us, we will be glad to apply for certifications in your area of need.

- Maryland Department of Transportation (MDOT)
- City of Baltimore
- Commonwealth of Massachusetts
- County of Lackwanna Transit System (COLTS)
Scranton, PA
- Detroit Department of Transportation (DDOT)
- Empire State Development - New York City
- Houston METRO (MTA)
- Howard County, Maryland
- Milwaukee Joint Certification Program (JCP)
- Montgomery County, Maryland
- New York Empire State, New York
- North Central Texas Regional Certification Agency (NCTRA)
- SMART
- Southwest Ohio Regional Transit Authority (SORTA)
- Southeastern Pennsylvania Transportation Authority (SEPTA)
- Washington Metropolitan Area Transit Authority (WMATA)