

Educational Projects

Rowan College of Engineering & College of Business Architects: Clarke Caton Hintz, KSS, Goody Clancy Elenzweig

MT was selected to provide Security, IT and Audio/ Visual systems design and Project Management for the College of Engineering & Security design for the College of Business prestigious facilities in Glassboro, NJ. **MT** was tasked with providing Technology presentations to this client to suggest the latest advancements to be incorporated into this new facility. This is a State project partially funded by the local Improvement Authority and the State of New Jersey. As part of the pre engineering in the Design Development stage, **MT** created budgets and cost analysis for all the Technology disciplines. **MT** suggested implementing Wireless Access Control doors in this project that saved over 1.3 million dollars over both projects for security. **MT** was the only Technology sub consultant chosen for both project teams, with a total of 4 different architectural firms (2 firms teamed per building). The architectural firms are from Princeton, Trenton, New York and Boston.

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Edison School District

Architect: LAN Associates

MT provided IT cabling infrastructure design for a new elementary school. **MT** coordinated all the IT infrastructure systems and provided Drawings and Specifications for this project. The coordination was with all the Electrical/Mechanical Engineers and the architect, along with incorporating all district standards to ensure a quality completed project.

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Sidewall Friends School—Washington, D.C.

Architect: Kieran Timberlake

Protecting President Obama's Children presented unique Security challenges at Sidewall. **MT**'s design satisfied the requirements of the U.S. secret service, who monitor this facility to watch over the President's children who attend this school. **MT** was selected to provide design engineering services for Security Systems that include CCTV and Access Control as well as IT Network Design for this famous K-12 facility. **MT** also provided infrastructure design for both wired and wireless, as well as all Audio Visual Systems consulting services for the renovations and the addition of a new building on the school campus. In addition, **MT**'s solution to permanently re-route outside carrier plant cable to accommodate the new construction allowed for the temporary re-routing of carrier services prior to the demolition of an existing campus building.



MT is a Princeton, NJ based Technology Consulting Design firm that provides a comprehensive range of services by Credentialed Professionals (CPP, CSC, VAM-CF, RCDD, MCSE, CCNA).

Collectively the MT staff has over 300 years of combined experience. Our areas of expertise include: Security Systems, Telecommunications, Infrastructure (Wired and Wireless), Network and Phone System Design, Audio-Visual Systems. MT provides fully coordinated drawings and specifications for new construction, retrofits, modifications and additions.

MT works directly for School Districts, Higher Education, and Municipal clients as well as team members on projects with Architectural Firms, Professional Engineering Firms and Construction Managers.

To find out more about what MT can do for you, please contact us:

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Educational Projects

**Woodbridge School District
Direct Client**

MT was selected to provide design and engineering services for the continuation of a private fiber optic network that was started by **MT**. The first phase was over 1.2 million dollars and now in phase 2 it is a 1.6 million dollars, for a combined 2.8 million dollar project. This project has all 24 school buildings combined with some Woodbridge Township Buildings in a cooperative shared services effort for unlimited bandwidth infrastructure. The cable design consisted of negotiating with Verizon and various utilities for right of way applications for conduit rentals as well as any aerial pole needs. These 2 projects so far, have saved the district over 1 million dollars in annual carrier services costs. The projects paid for themselves in less than 4 years. This Private Fiber Optic Network will also provide unlimited bandwidth for any future applications including IT & security. This network also provides endless possibilities for this district moving forward.

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Bancroft

Architect: KSS

MT was chosen to provide IT, Security & Audio Visual design services for this highly specialized client. It will consist of over 15 buildings on a newly designed campus in Haddonfield, NJ. There are apartments monitored 24/7 for Autistic clients, who are to become more educated on everyday life skills. Security here is of paramount importance. Various studies and analysis are being provided by **MT**. The campus includes a school for Autistic & Special Needs clients.

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Ocean County Vocational Technical Schools

Architect: Yezzi Associates

MT provided CCTV security systems design for 3 facilities in Ocean County. **MT** determined the needs through site surveys and a needs analysis study. **MT** then provided the proper budgeting to fund this project. **MT** designed the Video Management System (VMS) system that is web based and can be viewed by any authorized smart phone user as well as local Law Enforcement.

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North Caldwell Schools

Architect: Dicara Rubino

MT is teamed up again with this architect to provide Access Control and CCTV design for the district wide Security upgrades. **MT** provided Specifications and Drawings for bidding.

Educational Projects

Paterson School District

Architect: DIGroup

MT is teamed with Hall Construction and DIGroup in a design/build project for the New Jersey School Development Authority on this new elementary school. MT provided IT, Security and Audio/Visual systems design, incorporating the latest technologies for the new Paterson school # 16.

Long Beach Island Schools

Architect: Dicara Rubino

MT has provided CCTV and Access Control systems design. As LBI continues to recover from Hurricane Sandy, MT is assisting the district with its efforts to provide better security for its Students and Faculty.

Milton Hershey School

Architect: Clarke, Caton Hintz

MT is teamed up with this architect for a new Public Safety Building on a sprawling 10,000 acre campus for this prestigious client. They provide on campus housing and provide quality education to less fortunate students from various disadvantaged areas. With over one hundred plus buildings and 800+ cameras existing, MT will be designing a new Video Management System and Access Control for Security, along with IT and Audio Visual systems for this facility that includes a Command Center and Emergency Operations Center.

Georgian Court University

Architect: Nelson Online (H2L2)

MT has designed a high end Video conferencing system for the International Collaboration Center. The project enables the University to conduct many simultaneous Video Conferencing sessions via the internet without clogging the network or using up the allocated bandwidth. This facility has the ability to conduct 32 simultaneous video conferences. The facility is equipped with 8-80" interactive displays along with a movable lectern. It is a multi-configurable space that can accommodate numerous flexible furniture layouts.



Flexible, Forward Looking IT Solutions

Information technology is changing at the speed of light. What seems to be cutting edge now could be old news in just a few years.

Information Technologies include the areas of telecommunications, data, voice, cable infrastructure and the various network technologies. Telecommunications services include the design of wired and wireless voice and data systems, local/ wide area networks (LAN/ WAN), CATV systems, data centers, satellite, wireless mesh, free space optics, microwave technologies., emergency radio communications, as well as, private fiber optic networks.

Every construction project faces challenges regarding technology. These include the manner in which technology is integrated into the project, how technology will be managed over time, and how the infrastructure meets the ever changing nature of technology. All of our designs are standards based and geared towards the most cost effective and flexible solutions designed to grow with the client's needs.

Information Technology Services

Wide Area Networks
Master Planning
Telecom Infrastructure
Cabling Infrastructure
Voice & Data Systems
Control Room Design

Local Area Networks
Wireless Systems
Private Fiber Networks
Business Continuity
Data Centers
Systems Commissioning

Audio - Visual

Audio & Video systems play a crucial role in the learning environment. Whether a schools requirements call for auditorium sound design, noise mitigation, video projectors, interactive boards, or other classroom AV solutions, we can assess the requirements, design the system and develop bid ready drawings and specifications tailored to meet our client's needs.

Sound System Design
Theater Systems
Digital Media Delivery
Computer Training Labs
Multi-Media Presentation

Display Technologies
TV Studio Design
Digital Editing Systems
Remote Control Systems
Graphical User Interface



Professional Security Design

New Jersey Schools have no higher priority than keeping students and employees safe, yet tight budgets and tough new government standards pose extraordinary challenges. From CCTV, Access Control and intrusion detection to exterior lighting, we have the resources to handle all of your security needs.

Security services are crucial in today's environment. Protecting our clients assets, students, and employees through design of surveillance, emergency notification and panic procedures is our specialty. Our approach to designing security systems is both comprehensive and holistic, taking into account each districts culture and individual security needs.

Our integrated approach draws on our expertise in multiple engineering specialties that are required to design school security systems today. We are thoroughly versed in the post 9/11 standards established by the U.S. Department of Homeland Security and by New Jersey State Agencies.

Security Services

System Commissioning
Continuity Planning
Integration with BMS
Access Control Systems
Closed-Circuit TV Systems
Intrusion Detection Systems

Surveillance Systems
Threat Assessments
Card Access Systems
Preparedness Planning
Policy and Procedures
Systems Analysis



A full service Technology Consulting company with offices in Princeton, Philadelphia, Dallas, Miami and New York City.

- ⇒ Decades of providing creative, cost effective solutions for K-12, Higher Education, and Municipalities.
- ⇒ Pre-qualified by the New Jersey Division of Property Management and Construction (DPMC) and the New Jersey School Development Authority (NJSDA).

Project Services

Project Management
Systems Analysis and Design
Specifications and Documentation
Site Inspections
Field Measurements
Bid Review
Construction Administration
Post—Construction Testing

Infrastructure Testing

Verification and Certification
Fiber Optic-OTDR/ Power Meter
CATV Balancing
Category 6 Field Verification
Wireless Signal Strength
Access Points

Systems Commissioning

Security Systems
(CCTV, SMS, Access Control, IDS
Cabling Infrastructure
Network Systems (LAN/ WAN/ MAN)
Audio/ Visual (All Display Systems)