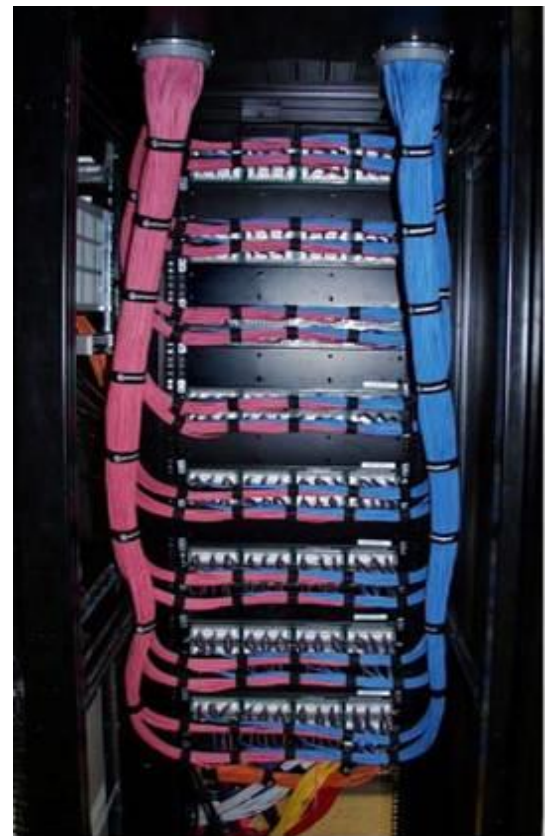


McWilliams Electric Co., Inc.

General Electrical Design Build Contracting Engineers



(847) 301-2600

1401 Rodenburg Road, Schaumburg, IL 60193

www.McWilliamsElectric.com

Fax (847) 301-2600



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Contracting Engineers

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Celebrating over 90 years of quality service, McWilliams Electric Company, is an Electrical Contractor performing electrical construction, engineering, and maintenance across the United States, but especially locally in Illinois. Here at McWilliams, our team prides itself on being a service oriented, customer-aware electrical contractor since our incorporation in 1922.

As a cross section, we currently provide Electrical and Technology Solutions services at these fine facilities:

- UIC, University of Illinois at Chicago
- Northwestern Memorial Hospital
- Allstate Insurance Company in Northbrook
- Central DuPage Health
- Nokia Technologies in Naperville
- Northwestern University
- Loyola University
- Illinois Tool Works
- University of Chicago
- Peacock Engineering

As an indication of our pride in offering the latest state of the art in electrical innovation, McWilliams is a BICSI Registered Communications Distribution Designer , a certified Telecom Infrastructure Design and Build firm, as well as a certified Telecom, Fiber / Copper Cable E.I.A. / T.I.A. testing and certification company. This includes fiber-optics, broadband technology, "smart building" applications, and tele-data work. We can provide everything from supplying complete systems to wiring service, including all tele / data changes, additions, or reductions.

We are effectively providing the same service that was performed by AT&T before divestiture. However we can accomplish it at a great savings to you and with more overall efficiency.

Another staple feature keeping McWilliams ahead of the curve is our in-house Engineering Division. McWilliams is a fully insured design/build contractor that can design your project and execute the job all the way through to electronic As-Built drawings when the job is completed.

McWilliams is proud to be serving its customers since 1922 with customer service and satisfaction before, during and after the job is completed. McWilliams would be glad to submit to you the current union wage rates particular to your company needs.

Thank you in advance for considering us.





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Regardless of technological advances within the Electrical Industry, the back bone of any building remains the same: Service Feeders, High Voltage, and Back up. McWilliams Electric Co. possesses the expertise of over 90 years installing all three of these systems. During that time, our team has designed, and developed a variety of installation methods depending on the scope, location, and needs of individual sites for our clientele. None of these installations should be taken lightly and require the proper installation and terminations to support the building. To properly install these systems, contractors must have the appropriate equipment, and well-trained employees to perform the installation correctly and safely.

Customers that have benefitted from McWilliams' Experience:

- Alcatel-Lucent Technologies
- Allstate Corporate
- University of Illinois @ Chicago
- Community Unit School District 303
- Downers Grove High Schools
- Central DuPage Health
- Illinois Institute of Technology
- Northwestern University
- Loyola University
- University of Chicago
- Flagg Creek Water Reclamation District
- Peacock Engineering





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Our Technology Solutions Division Services Include:

Communications Distribution Systems:

McWilliams Electric is able to design your system using our BICSI Certified RCDD Design Team. With our VAR Partnerships and Vendor Certifications, we can design, install and service Bogen, Valcom paging systems, Category 5e, 6, Fiber, T1, and DSL cabling systems for any voice and data applications using our Certified BICSI Technicians and Installers.

Intelligent Building Systems:

We offer proven experience and the ability to maintain, support, repair, train and integrate various building automation systems for our clientele.

Security Access Systems, CCTV & Monitoring Systems:

Our Team can implement any of your Security Access Control needs including: Card Access Systems, Bio Matrix Systems, CCTV and Video Monitoring Systems. We can also maintain or update your current system.

Fire Alarm Systems,:

McWilliams can maintain your existing system or design and install a new Fire Alarm system to meet your growing demands.

Wireless Systems:

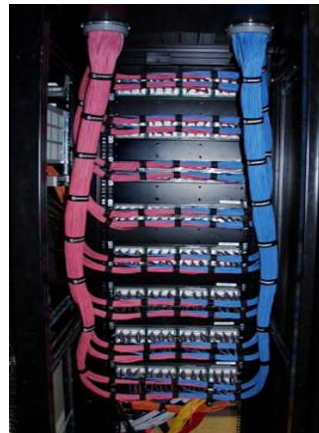
We can design the entire wireless infrastructure lifecycle; from planning and installation to maintenance and upgrades.

Telephone Systems:

McWilliams provides the installation and service expertise for all your telephone equipment needs. Our team is certified to provide installation and service for two of the most popular telephone systems in the world – Lucent and Nortel Networks.

Distributed Antenna System (DAS):

Whether it's a High Rise, Campus or Office setting, McWilliams Electric can plan, design and implement a new Distributed Antenna System to meet your needs. McWilliams' DAS system will not only boost your mobile broadband network, but additionally increase your Wi-Fi coverage.





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Infrared Electrical Scan Division



Whether it is routine maintenance or trouble shooting an issue, you need to know what is happening! Our Field operators are qualified electricians who work with you to identify minor issues before they turn into costly failures. Our objective is to help you save money, avoid prolonged downtime and avoid catastrophe!!! By using the NFPA 70B Recommended Practice for Electrical Equipment Maintenance, McWilliams will safely remove panel covers, take the infrared pictures and produce a report on what steps need to be taken to correct any issues and can make



some on the spot. McWilliams also offers the installation of an IR window which eliminates the need to take the panel off. All we need to do is bring our camera out for your quarterly / yearly inspection and we will produce a report of any issues we find that require attention or repair.

Condition Monitoring:

Thermographic inspection.

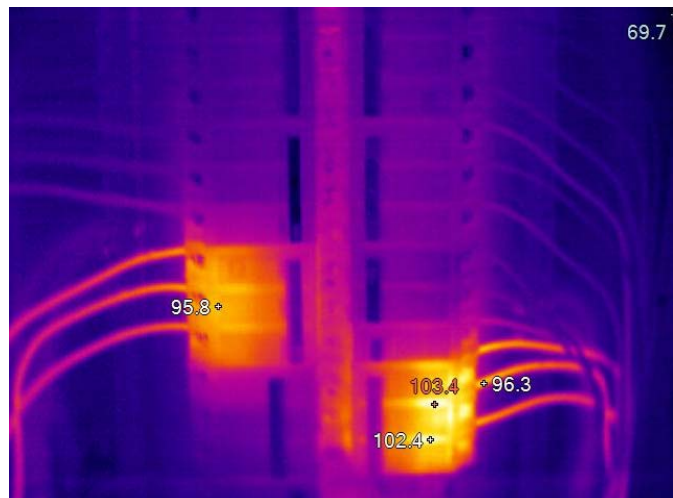
Full report detailing our findings

Via electronic or print copy.

An audible recording of findings.

Actions taken to remedy,

A history of plant conditions.





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Award Winning Safety Program

McWilliams Electric prides itself on their high Safety Rating and continuous efforts to train office and field personnel on safety protocols. This level of excellence has won McWilliams several Industry Safety Awards and can be attributed to McWilliams Electric's Safety Director Jerry McGlynn. Jerry has had extensive training in all areas of construction safety. Jerry has certifications from the Board of Safety Professionals as a Safety Trained Supervisor (STS) and as a Construction Health and Safety Technician (CHST). He also has a certificate in Safety Management from the American Society of Safety Engineers.

Jerry's qualifications include: American Red Cross Authorized Instructor in First Aid & CPR/AED, OSHA Construction Outreach Trainer authorized to conduct 10 and 30 hour courses, Alcohol & Drug Supervisor Training, OSHA Inspection Survival Seminar, Fall Protection Competent Person, Excavating Competent Person, Supervisor's Safety Training Course "Super Safe" and Forklift Training.

Jerry ensures all employees of McWilliams Electric are fully educated on all safety procedures in compliance with the OSHA 29CFR1910 standards. Jerry oversees safety meetings and job site hazard analysis for all employees and supervisory staff that are scheduled once a week. These meetings are used to demonstrate accident prevention.

Training topics include, but are not limited to:

- Company Safety Management & Procedures
- Hazard Communication (Haz Com) Right-to-Know
- Hazardous Waste Site Worker (Haz Woper)
- Confined Space Procedures
- Fall Arrest & Fall Protection
- Personal Protective Equipment (PPE)
- Emergency Action Procedures
- Scaffolding & Aerial Lifts
- Respirator Protection
- Lock Out / Tag Out
- Bloodborne Pathogens
- NFPA 70E
- First Aid & CPR/AED



McWilliams is proud to be celebrating over 90 years of Quality Safe Service to its customers and looks forward to continuing their excellent safety record.



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James J. McGlynn, Sr., President /CEO

Jim has proudly served McWilliams Electric Co., Inc. customers for over 48 years. Since beginning his apprentice in 1959, Jim worked through the ranks as a Journeyman, Foreman, Superintendent, Vice President of Operations, and now to his present position as President / CEO and owner of McWilliams Electric Company, Inc. In addition to heading up the McWilliams Team, Jim also promotes the electrical construction industry by being on the following Electrical/Construction boards:



Illinois State Crime Commission Award of Excellence in Business 2007

Past President & Current Board Member:

- Construction Industry Service Corporation (CISCO)
- Labor Management group designed to promote construction in Northern Illinois

Vice Chairman:

- Electrical Joint Apprenticeship and Training Trust of the City of Chicago and Cook County

Recipient

- James H. McGraw Award of the National Electrical Contractors Association

Illinois Delegate:

White House Conference on Small Businesses 1995.

Director:

Emeritus USA Hockey

Past Governor:

- Electrical Contractors Association of Chicago and Cook County

Past Chairman:

- DuPage County division of the Northeastern Illinois Chapter of the National Electrical Contractors Association

Past Secretary:

- DuPage County Joint Apprenticeship and Training Committee

Past President:

- Electrical Contractors Association of the City of Chicago and Cook County
- American Subcontractors Association; Chicago Chapter.
- Illinois Mechanical and Specialty Contractors Association

Member :

- Permanent Member ECA Executive Committee
- UIC Athletic Board
- Academy of Electrical Contracting
- Electric Association Hall of Fame Inductee 2007
- Amateur Hockey Association of Illinois - Hall of Fame Inductee
- Political Leadership Council of the National Electric Contractors Association



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Scott Swayze, Vice President

Scott possesses thirty years of experience in the Electrical Construction Industry. In 1984, Scott joined the McWilliams team as a union member. In 1987, he moved into McWilliams main office as an Estimator/Draftsman. Three years later, in 1990, Scott was promoted to Project Manager. In 2000, Scott was promoted to his current position of Vice President in charge of Estimating.

Scott has various certifications in Electrical Code, and is an active member of Chicago Electrical Estimators Association and has completed the University of Wisconsin Engineering Course. In addition to numerous Project Management and Computer Estimating courses, Scott has received his supervising Electrician's License in the City of Chicago and is Green Advantage Certified.

Joseph McGlynn, Vice President

After graduating from Curry College with a Bachelor of Arts degree in 1993, Joe joined the McWilliams team in 1997 as our Marketing Director. His responsibilities included all Marketing campaigns and promotions for McWilliams. Joe became very involved with our customers throughout the time he was in charge of our marketing and in 2000, Joe was promoted to a Project Manager at McWilliams. In 2005, Joe was promoted to Vice President of marketing. His responsibilities include overseeing all marketing aspects for the company, as well as maintaining and developing customer relationships, and managing his current jobs in progress. Joe is also the McWilliams IT manager.

Joe became a Northeastern Illinois National Electrical Contractors Association (NECA) representative after joining the McWilliams Team. He is currently a trustee for the Labor Management Cooperation Committee for both Northeastern National Electrical Contractors Association (NECA). He is also the Chairman of the I.B.E.W. Local 701's Appeals Committee and a Joint Conference Board Representative.

Joe was the Marketing director for a NAHL franchise team as well as an Assistant Coach/Assistant GM.

Maureen Lucenti, Chief Financial Officer

Maureen joined the McWilliams team in 1987 in the accounting department. She was promoted to our Assistant Office Manager in 1990 and was in charge of overseeing a variety of accounting positions including Accounts Receivable, Accounts Payable and Payroll. Maureen received her Bachelor of Arts degree from Lewis University in 1992 and was promoted to Comptroller in 1995. In 2005, Maureen became McWilliams' Chief Financial Officer. Her responsibilities include overseeing the entire Accounting Department, managing our Corporate Banking and Financing requirements, and preparing financial reporting for the company.

Maureen belongs to the Association of Subcontractors and Affiliates of Chicago (ASA Chicago) and is an active member on their Social and Finance committees. In addition to her work with ASA Chicago, Maureen coordinates the contractor's Annual Area 7 Special Olympics Kick Off Picnic every June at Allstate Insurance Company Headquarters in Northbrook, IL. Since the Special Olympics Kick Off Picnic's conception in 1999, the picnic has raised over \$200,000 for the cause.





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Bill Siemek, Purchasing Manager

Bill began working at McWilliams in the summer of 1979 as an electrical summer helper. The following year, Bill became a full time truck driver/warehouse assistant for McWilliams. In 1982, Bill was promoted to the Warehouse Manager. As Warehouse Manager, Bill supervised the McWilliams' company truck drivers, managed the company fleet, as well as all company materials, tools and facilities.

In 1984, Bill became the Assistant Purchasing Agent and retained his position until he was promoted to Purchasing Manager in 1990. As the Purchasing Manager, Bill is responsible for placing all material orders.

In addition to being the Purchasing Manager, Bill also oversees the Warehouse Manager and assists McWilliams' Project Managers with estimations. In addition to Bill's vast knowledge of on the job skills, Bill has completed various electrical courses which include: the OSHA 10 and 30 hour courses, NECA estimating construction course, Blue Print Reading, and the NECA Advanced Construction Law course.

Bill is a proud member of the Fox Valley Associated General Contractors Association and is a member on their Education committee.

Joe Ramello, Director of Engineering

Joe Ramello brings a wealth of knowledge and experience to the McWilliams' Team. He has over 30 years of experience in the Electrical Construction Industry and is a graduate of the IBEW Local 134 apprenticeship program. In addition to working as a foreman, Joe has 19 years of hands-on experience in the field where, in addition to general electrical work, he specialized in projects involving refrigeration and process controls, fire alarm systems, and other electrical systems unique to the dairy, refrigerated warehouses and food processing industries. This strong foundation, coupled with his unique creative ability, has allowed Joe to expand the McWilliams team in the design build industry for such customers such as Peacock Engineering, Olympic Oil, and Kraft Foods.

Frank Leasure, Project Manager

Frank started his apprenticeship in 1978, graduated in 1982, and became a member of the McWilliams' team in 1993 as an electrician. Frank worked with Lucent as an Engineer from 1996 through 2004. His Certifications include: CPR, NFPA 70E, OSHA 10 hr., Scaffold Trained and Aerial Lifts. He has also completed the National Electrical Code, Residential 1 & 2, General and Plan Review.





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Norm Spiegel, Project Manager

Norm joined the McWilliams Team in 1991 and adds 45 years of experience in the Communications / Security Industry to McWilliams Electric. From 1970 - 1975, Norm was involved in the installation and service of communication / security systems. Since 1975, he has been involved in Electrical, Communications, Security, Fire Alarm, Voice / Data, Video, Fiber Optic Systems Design, Sales, and Project Management.

Mike Schutten, RCDD, LEED® AP, Project Manager

Mike joined the McWilliams Team in 1987 as a Journeyman Electrician. Throughout his tenure at McWilliams, he has been a Foreman and General Foreman before becoming a Project Manager. Mike has a fortune of knowledge in the Electrical and Communications Fields. Mike is a BICSI Certified RCDD Designer, BICSI Certified Technician, and a Certified Systimax Designer. Mike is also certified in OSHA 10 and 30 hour Construction Industry Courses.

Jim Raymond, Project Manager

Jim has over 17 years of experience in the construction industry beginning in 1999 when he was hired by McWilliams Electric as a first year apprentice. Prior to McWilliams, Jim enlisted in the United States Marine Corp after graduating Providence Catholic High School in 1991. He served his first enlistment overseas before re-enlisting in 1994 for another four years term. He was meritoriously promoted through the ranks before being honorably discharged at the rank of Sergeant in 1998. Following his honorable discharge, Jim began the IBEW Apprenticeship program in the Fall of 1999, upon graduation in December of 1999 he was hired by McWilliams Electric Co and worked his way up to Foreman. After nearly 15 years of dedication and hard work Jim was promoted to Project Manager in 2014.

Greg Parsons, RCDD, Project Manager

Greg started his IBEW 134 apprenticeship in July of 1997. After his apprenticeship, he became a Journeyman and was promoted to a Foreman in 2008 and began running work for McWilliams. Greg also spearheaded projects involving Fire Alarm, Security, CCTV, Voice / Data, and Fiber Optics. He is recognized by FOA as a certified Fiber Optic Technician, he is a Panduit Certified Technician and is also a BICSI certified RCDD. In 2016, Greg accepted a position to become a McWilliams Project Manager.

Paul Karwoski, Electrical Superintendent

Paul is a graduate of both the Coyne Institute of Technology and the IBEW Local 701 Apprenticeship programs. Paul joined McWilliams in 1994 and has worked as a Journeyman Electrician, Field Foreman, General Foreman and in 2008 was promoted to Electrical Superintendent. Paul has also completed and received certificates in the following courses; OSHA 10 and 30 hour, NFPA 70E, Aerial Lifts, Scaffolding, Confined Space and Adult First Aid and CPR/AED.



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Jerry McGlynn, CHST, STS, Safety Director



Jerry received his Bachelor of Arts degree from Lewis University in 1998. Jerry joined our McWilliams team as our Safety Director in 1999 and has had extensive training in all areas of construction safety and has certifications from the Board of Safety Professionals as a Safety Trained Supervisor (STS) and as a Construction Health and Safety Technician (CHST). He also has a certificate in Safety Management from the American Society of Safety Engineers.

Jerry's qualifications also include: OSHA Construction Outreach Instructor, Authorized Provider for the American Red Cross and NFPA 70E - Electrical Safety Related Work Practices Instructor through the NJATC. With this, Jerry teaches all of our craftsmen and women the OSHA 10 & 30 hour courses, First Aid & CPR / AED and the standard for Electrical Safety in the workplace (NFPA 70E).

Jerry has had extensive training in all areas of construction safety related topics including: Alcohol & Drug Substance Abuse Supervisor Training, OSHA Inspection Training, Competent Person Training in Fall Protection; Trench and Excavations; and Confined Spaces OSHA Safety Related Work Practices, Electrical Project Supervision, Accident Investigation & Root Cause Analysis, Forklift Safety, Hazardous Waste Site Worker (OSHA 40 hour) and Electrical Hazard Awareness. Jerry manages our drug testing and safety programs, and assures that our job sites meet all required safety standards. Jerry is a stern believer that no job is so important that it can not be done SAFELY.

Board Member:

- IBEW Local 701 Safety Committee
- Construction Safety Council

Member:

- Association of Subcontractors and Affiliates (ASA Chicago) Safety Committee
- American Society of Safety Engineers
- Construction Safety Council
- Electrical Contractors Safety Commit



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McWILLIAMS ELECTRIC HISTORY IN THE MAKING

McWilliams Electric Co., Inc began as a family owned, union electrical contracting company specializing in design and build of both industrial, commercial and residential electrical systems throughout the Chicagoland area. McWilliams Electric Co., Inc. was named after the founder, a man simply known as "Mr. McWilliams" to all. Though Mr. McWilliams founded the company in 1922, McWilliams Electric would soon change hands for the first time, yet ironically remain both a family owned company and a proud union contractor.

Purchased by George Shannon Sr., George Sr. grew McWilliams Electric as the rise of the suburbs spawned following WWII. With the creation of new buildings throughout the suburbs, George Shannon Sr.'s quickly found work and success in the Chicago area. After many years of prosperity under George Shannon Sr. he handed down McWilliams Electric Co., Inc to his son George Shannon Jr.. Following the tragic death of George Shannon Jr., the Chairman of the Board at the time, George Shannon Sr., appointed Richard Hickey to President of McWilliams.

Enter James McGlynn Sr., or Jim as he prefers. Jim began his apprenticeship in 1959 and later joined the McWilliams team as a Foreman working at Western Electric. After the completion of work at St. Joe's Hospital in Elgin, Illinois, Jim was proudly appointed to McWilliams Electrical Superintendent and soon thereafter appointed to Vice President of Operations.

Following George Shannon Sr.'s death in 1980, McWilliams ownership would change hands for the second time. In 1980 Jim McGlynn Sr. purchased McWilliams Electric from the Shannon family and it's associated owners. Following the purchase, Jim possessed both the Cook and DuPage County offices.

Under the new leadership of Jim McGlynn Sr., McWilliams wasted no time in winning job sites all across the Chicago Area. Due to the continued success under Jim, McWilliams grew to a staff of nearly 150 employees to meet the growing demand for field electricians.





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Though we pride ourselves on all jobs we perform, below are a cross-selection of jobs:

- 1985 to 1994 McWilliams worked extensively within the then newly constructed McDonald's Corporate Offices, as well as across McDonald's campus in Oakbrook Illinois.
- During the 1980's, McWilliams Electric performed extensive work throughout G.D. Searle and Co., main laboratory in Skokie Illinois. This square block laboratory required extensive electrical work throughout the building in order for G.D. Searle, now a subsidiary of Pfizer, to develop pharmaceutical drugs for human consumption.
- In 1991 McWilliams provided the electrical work for the single largest indoor marine mammal facility in the world at the John G. Shedd Aquarium in Chicago, Illinois. Not only was the electrical installation performed by McWilliams Electric but so too was the design. During the design process McWilliams designed a seasonal timing and intensity lighting system for mammalian habitats. Due to the drive for perfection at the Shedd Aquarium McWilliams Electric received the 1991 Chicago Lighting Institute's Award for lighting excellence.
- Throughout the last three decades, McWilliams Electric has worked extensively with the University of Illinois at Chicago performing maintenance, renovations, installation and design all across the college's campus. Most recently, The University of Illinois at Chicago completed the ground up construction of The Curtis Granderson Stadium in 2015 with the help of McWilliams Electric Inc., Co. From the heated Baseball dugouts to the stadium lighting and even the closed circuit networking to the stadium, all electrical work was proudly designed and installed by McWilliams Electric.
- With ongoing industrial electrical work being performed for Allstate Offices and Alcatel-Lucent Technologies, McWilliams Electric Co., Inc. is committed to providing upkeep, maintenance, and renovation to its customers.
- In 2012, Navistar International Corporation (Formerly International Harvester Company) requested work from McWilliams Electric where we performed electrical installations in both their Northlake and Joliet locations.
- 2013 McWilliams performed a very large remodeling project of electrical and telecommunications work within the College of DuPage's McAninch Arts Center. The McAninch Arts Center or better known as "The MAC," is a building which touts over 1.5 million visitors since its creation in 1981.
- In 2014, Argonne National Laboratory, the largest national science and engineering research laboratory in the Midwest, hired McWilliams to design and install a Green Energy solar field.
- In 2015, McWilliams began the electrical renovation of Fenton Community High School located in Bensenville Illinois.





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- For McWilliams, safety of our employees is vital. By maintaining a high level of expectation for safety on the job, McWilliams Electric has received numerous Association of Subcontractor and Affiliates of Chicago (ASA Chicago) safety awards.
- In addition to various awards McWilliams has received in our rich history, we are honored to receive the National Electrical Contractors Award for Safety Excellence in 2015. This award acknowledges member-contractor's safety performance. The winners of the awards are selected based on their comparison to BLS data and electrical contractors.
- McWilliams has always stood for reliability, quality, but most of all integrity in all the work we do. As a demonstration for our commitment to integrity, McWilliams Electric Co., Inc. was awarded the 2007 Subcontractor Excellence Award in 2007 by the ASA of Chicago.

After deliberation in 2005, McWilliams Electric Inc., Co. decided to incorporate a telecommunications division in order to adapt to the rapid changing telecommunications industry. Known as Technology Solutions Division, or TSD for short, TSD handles the designing, planning, and execution of a variety of telecommunication systems. These services include, but are not limited to communications distribution systems, intelligent building systems, security access systems, fire alarm systems, wireless systems and finally telephone systems.

Though McWilliams Electric Inc., Co. has occupied various office locations across Cook and DuPage County our most recent expansion came from our Cook County office. With offices in Carol Stream and Elk Grove, McWilliams Electric had to expand in order to meet our growing space demands. Therefore, in 1999 McWilliams Electric relocated a 20,000 square foot building for warehousing and office space in Schaumburg Illinois.

In the spring of 2015, McWilliams Electric adopted an ESOP program. ESOP is an acronym for Employee Stock Ownership Program. This program is an additional Retirement Benefit Plan that provides employees ownership interest in the company.

McWilliams Electric is looking forward to another 94 years of success and prosperity.





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Courtesy of the Electrical Contractor Magazine

Of the millions of buildings in the United States, less than 3 percent—an estimated 90,000 to 100,000—are on the National Register of Historic Places. While representing only a small slice of the nation's building population, a bevy of stakeholders ensure these prominent landmarks meet exacting standards. They often require extensive upgrading by contractors with an additional level of expertise and experience.

Pepper Construction Group is a nearly 90-year-old, third-generation general contracting and construction management firm headquartered in Chicago. It is the third-largest contractor in the Midwest and the 45th largest in the nation. Following, experts and members of the Pepper electrical subcontracting team discuss details of the high-profile historic upgrades at the White House in Barrington, Ill. They also offer tips for success in vintage structure renovations.



The interior of the White House in Barrington, IL.

BARRINGTON'S WHITE HOUSE

In July 2014, Pepper Construction embarked on the renovation of the White House, a three-story, 14,000-square-foot home built in 1898. The goal was to turn it into an elegant and highly functional community center capable of hosting weddings and other special events. Located in the center of Barrington, approximately 35 miles northwest of Chicago, the renovated structure opened its doors to visitors a year later as part of the town's 150th anniversary in July 2015. The 15-month-long restoration project officially wrapped up in October 2015.

"We had an average of 30 tradesmen on a daily basis and as many as 90 tradesmen working on the building, which contains three floors and a basement, all in conjunction with a retail center being built by Pepper Construction on the site next door," said Chet Busse, senior project manager, Pepper Construction.



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Though the Classical Revival architectural-style home was converted to a senior residence in the 1930s and to office space in the 1970s and 1980s, Pepper Construction focused on returning it to its roots.

“We strove to maintain the original millwork and did a 3-D scan of the exterior elevations and roof so that we had exact measurements to replicate,” Busse said.

In addition to updating the kitchen and expanding the third-floor ballroom to accommodate large parties, the renovation also involved constructing an addition that included an elevator, a second set of stairs and seven new bathroom facilities.

With support from electrical contracting partner Scott Swayze, vice president of McWilliams Electric Co. Inc., Schaumburg, Ill., all old mechanical parts and pieces were removed. New panels and service to the building were installed, down to the conduit and wire. This effort involved everything from lighting fixtures, switches and outlets to lightning protection and fire alarm systems.

In an attempt to be as environmentally responsible as possible, the upgrade also involved the installation of a geothermal heating and cooling system that will significantly reduce the building’s long-term operating costs.

“We had seven wells cored outside that go 500 feet deep and circulate a mixture of water and glycol, which provide cooling from a 57°F base and heating from that same highly efficient configuration,” Busse said.

By implementing these and other measures, such as light-emitting diode (LED) lighting and controls, the White House achieved LEED Gold status—the first facility to do so in Barrington—and experienced a 42 percent energy reduction.

“In addition to being a beloved part of the town’s history, it’s now also an energy-efficient structure,” Busse said.

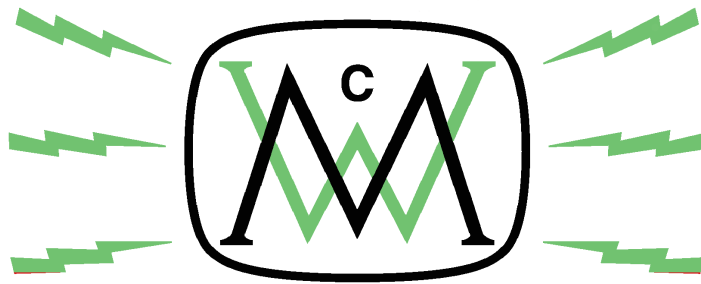
Challenges on the project involved the removal of existing millwork and wainscoting to replace electrical devices.

“We had carpenters working alongside our electricians to make repairs with minimal cost and disruption,” Busse said. “There were also modern codes that needed to be addressed, and we needed to fully understand the space—we were uncovering old code items all the time.”

This included the house’s original vintage knob-and-tube wiring that was buried in attic spaces.

Pepper Construction was involved in the preplanning and reconstruction of the White House since 2012.

“This project was very special to all of us, and to know that our work will help ensure that the structure can remain here for a long time to come is very rewarding,” Busse said.



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McWilliams Electric continues “Going Green” with it’s latest Photovoltaic Project at Argonne National Laboratories.



At Argonne National Laboratories McWilliams Electric installed 3 different Manufacturer’s Photovoltaic Modules incorporating both mono crystal and thin film technologies. Boasting 93 kW DC Nameplate Capacity the system is intended to be a platform for the development and study of future photovoltaic system technologies.

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