Czarnecki Engineering, Inc., established in June of 1986, is a full service, electrical consulting firm. We are the successor firm of Czarnecki & Associates, established in January of 1980. Our offices are located at 1121 Marlin Court., Suite B, Waukesha, Wisconsin.

Czarnecki Engineering prides itself on availability to meet electrical challenges and achieve client objectives. Our firm has gained a reputation as a responsive organization, acquiring a high percentage of commissions through repeat clients. We deliver a well-designed electrical system within a predetermined cost framework that will answer your program needs and enhance your project through creative lighting design.

The firm has developed multiple specialties through owner-focused performance on the following types of projects:

<table>
<thead>
<tr>
<th>Municipal-State, County and Local Facilities</th>
<th>Nursing Homes-Advanced and Assisted Care Facilities</th>
<th>Theaters and Auditoriums-Community and School</th>
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</thead>
<tbody>
<tr>
<td>Educational</td>
<td>Museums</td>
<td>Financial</td>
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<tr>
<td>Fire Alarm Systems</td>
<td>Religious</td>
<td>Lighting Design</td>
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<tr>
<td>Commercial Office Buildings-Low, Mid and High Rise</td>
<td>Libraries</td>
<td>Multi Family/Elderly Housing</td>
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<td>Industrial-Light, Medium and Heavy</td>
<td>Sports Complexes-Indoor and Outdoor</td>
<td>Child and Adult Day Care Facilities</td>
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Czarnecki Engineering's experience includes active and completed projects in Wisconsin, Alabama, Arizona, California, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, Ohio, Oklahoma, Oregon, South Carolina, South Dakota, Tennessee, Texas, Virginia, Washington, and Wyoming, all states in which we maintain professional registration.

When creating designs for facilities, we place a high priority on the building's flexibility. Using CAD, we can explore design alternatives readily and accommodate changes easily. The end product can be updated as building needs change over time.

We have reached our present size due to the loyalty of our clients and their willingness to recommend us to their colleagues. If you are considering us and wish references, we can provide a list of clients who can best advise you of our capabilities for the type of work you require.

In an average year we complete 150 projects. The smallest takes a day or less, and may involve a building walkthrough and a letter form report, or lighting concept sketches without working drawings. The largest may take a year from start to finish and require several thousand hours of technical time.

We invite those considering retaining us to visit us in our offices and talk to our people, or invite us to your office and we'll bring samples of our work and of our lighting designs. We hope to have an opportunity to meet with you and discuss your upcoming work.
PERSONNEL BY CATEGORY

Professional Engineer
Alan M. Czarnecki, PE - President and Senior Principal

Registered Electrical Designer
Ervin D. Stern – Principal, Senior Project Manager and Lighting Designer

REVIT Technician/CAD Designer
Beth A. Bruss

CAD Designer and Draftsperson
Anne M. Malinowski
Debbie L. Carpenter

Administration
Susan E. Czarnecki – Business Manager
Dawn N. Mailloux – Office Administrator

Czarnecki Engineering, Inc.
Education
Bachelor of Science, 1973
Electrical Engineering,
Marquette University

Registration
Professional Engineer
Wisconsin, Alabama, Arizona, California, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, Ohio, Oklahoma, Oregon, South Carolina, South Dakota, Tennessee, Texas, Virginia, Washington, Wyoming

Professional Affiliations
Illuminating Engineering Society of North America, IESNA
NFPA

Previous Employers
Leedy and Petzold Consultants, Inc.
Czarnecki and Associates
Goulet-Rigby and Associates, LTD.

Role: Project Electrical Engineer
Alan has 42 years experience as an electrical engineer. His areas of expertise include medical facilities, elderly housing, educational facilities, churches and shrines, and office buildings.

Alan has a broad range of experience and has worked with public and private sector clients on studies, reports, facility prototypes and nearly every type of construction project.

Alan recognizes lighting design is a specialty service. He provides unique design solutions from concept through construction. He works closely with architects to insure integration of the lighting with the architecture. Alan has received multiple IESNA awards for his lighting design projects.

Fire Alarm systems, both new and replacement projects, are another of Alan’s specialties. He has done several multiple building system upgrades on University of Wisconsin campuses.

Experience and Key Projects
Nursing Facilities
Trinity Village – Milwaukee, WI
Bethesda Lutheran Home – Watertown, WI
Marywood Center – Wausau, WI

Elderly Housing
Harwood Retirement Center - Wauwatosa, WI
St. John’s Home - Milwaukee, WI

Schools
Milwaukee Public Schools—155 Projects
Tosa Schools—20 Projects
MATC—70 Projects
Universities—Over 70 Projects
Erwin Stern

Education
Bachelor of Science, 1985
Criminal Justice,
University of Wisconsin - Milwaukee

Registration
Registered Professional Designer:
Wisconsin (2003)

Professional Affiliations
Illuminating Engineering Society of North America, IESNA
2008-09 President-Milwaukee Section

Previous Employers
Leedy & Petzold, Inc.
Consulting Engineers

Role: Principal, Senior Project Manager and Lighting Designer
Ervin is a project manager with 28 years of consulting experience. He specializes in Financial Institutions, and Municipal Buildings.

Experience and Key Projects

Military
Camp Williams—Camp Williams, WI

Municipal
Washington County Fair Grounds—Washington, WI
Ives Grove Golf Clubhouse—Racine, WI
Lakeside Center Building—Mequon, WI
A. G. Edward Office Building—Mequon, WI

Educational
Reeve Memorial Union, University of Wisconsin—Oshkosh, WI
Hyer Hall, University of Wisconsin—Whitewater, WI
Messmer High School—Milwaukee, WI
Woods Lake Elementary School—Lake Geneva, WI

Worship Centers
St. Luke Lutheran Church—Slinger, WI
Christ Presbyterian Church—Madison, WI
Grace Lutheran Church—Thiensville, WI
Covenant Presbyterian Church—Racine, WI

Historic
Boerner Mercantile Building—Port Washington, WI
Port Exploreum—Port Washington, WI
Wisconsin Conservatory of Music—Milwaukee, WI
Education
Bachelor of Arts in Interior Architecture, 2002
University of Wisconsin – Stevens Point
Stevens Point, WI

Previous Employers
Ring & DuChateau
Arnold & O’Sheridan

Role: REVIT Technician/Designer

Experience
Beth has twelve years of experience as an Electrical CAD Technician including six years with REVIT MEP 2010-2016. She implemented Revit capability for the electrical department of her last employer, and she is doing that at Czarnecki Engineering as well. She has experience using AutoCAD MEP 2016, XL2 CAD, Newforma, BlueBeam, Serif WebPlus X7, MS Word, MS Excel, and MS PowerPoint.
Education
Associate Degree Architectural Technology, 2000
Fayetteville Technical Community College
Fayetteville, North Carolina
IES Lighting Fundamentals

Current Employer
Army National Guard—Air Medical Unit

Previous Employers
Detter & Associates, PME

Role: Designer/Technician

Experience
Debbie joined our firm in June, 2001. She has experience using AutoCAD 2015, Visual Program, Comcheck Calcs, MS Word, MS Excel, WordPerfect and MS PowerPoint. Debbie has experience performing field surveys, punchlists, power, systems and lighting layouts.
Education
CAD Drafting
IES Lighting Fundamentals

Previous Employers
Czarnecki & Associates, Inc.

Role: Designer/Technician

Experience
Anne has been with our firm since September, 1990 as a Design Draftsperson. She has completed CAD Drafting courses and her experience includes working four years for our predecessor firm. She graduated from MATC and has attended several seminars on Lighting Design. Anne has experience performing lighting, power, and fire alarm system layouts. She is very proficient with site lighting photometric studies.
<table>
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<tr>
<th>Client</th>
<th>Company</th>
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<tr>
<td>Archibello, LLC</td>
<td>M.A. T. C.</td>
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<td>Architects Group Ltd.</td>
<td>McDonald's</td>
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<td>Architectural Associates, Ltd.</td>
<td>Michael Corrigan</td>
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<td>Barrientos Design and Consulting, LLC</td>
<td>Mudrovich Architects</td>
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<td>BMR Design Group</td>
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<td>Boer Architects</td>
<td>Perspective Design Inc.</td>
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<td>Brown Deer School District</td>
<td>Pierce Engineers, Inc.</td>
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<tr>
<td>Catalyst Construction</td>
<td>Plunkett-Raysich Architects</td>
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<td>Christopher Kidd &amp; Associates</td>
<td>PDC Design Group</td>
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<td>Circle Electric</td>
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<td>City of Milwaukee</td>
<td>Quorum Architects</td>
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<td>Continuum Architects</td>
<td>R.A. Smith National</td>
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<td>Creative Business Interiors</td>
<td>Ring &amp; Du Chateau</td>
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<td>Dorschner Associates</td>
<td>Sigma Development</td>
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<td>ESI Group USA</td>
<td>Southport Engineered Systems</td>
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<td>Eppstein Uhen Architects</td>
<td>Specialty Engineering Group LLC</td>
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<td>Foundation Architects, LLC</td>
<td>State of Wisconsin - DSF</td>
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<td>Galbraith Carnahan Architects, LLC</td>
<td>Stelling &amp; Associates Architects, Ltd.</td>
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<td>Haag Muller Associates, Inc.</td>
<td>Thunderbird Engineering</td>
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<td>HSR Associates, Inc.</td>
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<td>Industrial Roofing Services</td>
<td>Vantage Architects</td>
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<td>Kwik Trip</td>
<td>Veolia Environmental Services</td>
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<td>Kehoe Henry</td>
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<td>Kenosha County</td>
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<td>LaMacchia Group</td>
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<td>Larson Architect</td>
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<td>Liechty Associates</td>
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<td>Wauwatosa Public Schools</td>
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<tr>
<td>Veolia Environmental Services</td>
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</table>
2006 International Illumination Design Award
Award of Merit
Lighting the Ultimate Driving Machine
Concours BMW-Glendale, WI

2004 International Illumination Design Award
Section Award
Harambee Early Learning Center

2003 International Illumination Design
Section Award
Titan Bookstore-University of Wisconsin-Oshkosh Campus Bookstore

2001 International Illumination Design Award
Award of Merit
Crossroads Presbyterian Church
Prairie Heaven
Outpost Natural Foods
Seeing Green

1999 International Illumination Design Award
National Award of Merit
Private Theater
Private Residence

Award of Merit
Down/Under Pub
Lighting of the Down/Under Pub

Award of Merit
Cedarburg Performing Arts Center-Cedarburg, WI

1998 International Illumination Design Award
National Award of Merit
Alterra Coffee
Lighting For Beans

Award of Merit
Rebirth of Retail - Milwaukee, WI
The Forgotten Light Source

1996 International Illumination Design Award
National Award of Merit
St. Charles Borromeo Church - Milwaukee, WI
Relighting of St. Charles Borromeo Church

1994 International Illumination Design Award
Award of Merit
Mason City Medical Clinic - Mason City, Iowa
Relighting of Mason City Medical Clinic

1993 International Illumination Design Award
Award of Merit
Franciscan Sisters of Perpetual Adoration - Relighting of the Maria Angelorum Chapel
Viterbo College - La Crosse, WI

1992 International Illumination Design Award
Section Award and Special Citation
Marshfield Clinic - Lakeland Center - Minocqua, WI
Lighting of the Marshfield Clinic
NEEDS FORECASTING - MASTER PLANNING

Long Range Development Planning occurs through all phases of activity, rather than as an isolated event. At Czarnecki Engineering, future facilities are anticipated, and will be considered in the electrical design providing flexibility for change and incorporating growth.

BUDGETING AND COST ESTIMATING

Czarnecki Engineering offers expertise, in areas of renovation and adaptive reuse of existing structures; project types often associated with hidden or unanticipated costs. Our firm's record of on-budget performance attests to the care and expertise with which cost estimates are rendered, and our commitment to providing clients with reliable and realistic cost information.

DESIGN DEVELOPMENT

While finalizing and refining approved electrical design concepts Czarnecki Engineering strives to satisfy each client's electrical needs including energy conservation measures, security, communications and power.

CODE COMPLIANCE

Czarnecki Engineering's conscientious regard to building codes, zoning, life safety and ADA requirements guarantees expeditious approval and authorization to proceed.

CONSTRUCTION DOCUMENTS

With experienced personnel handling your construction documents your needs will be anticipated and incorporated into the plans. While preparing final working drawings and specifications Czarnecki Engineering will coordinate with all applicable government agencies and finalize selections of electrical systems, materials and products.

CONSTRUCTION ADMINISTRATION AND FOLLOW-UP

Upon authorization, Czarnecki Engineering can perform the following Construction Administration and Observation steps:

- Preparation of final design, contract documents, cost estimates confirmation, client review, approval and bidding authorization.
- Accomplish agency reviews & all necessary code approval.
- Conduct pre-bid conference with all interested bidders.
- Issue addenda for information, clarification, or change.
- Answer all bidding questions.
- Conduct or assist Owner as desired in formal Bid Opening, including reading of bids, tabulating results, verifying for completeness/compliance and making selection recommendations, and award of bids assistance.
- Conduct all necessary site visits.
- Conduct final "punch list" and close-down procedures for completion.

SUMMARY

Czarnecki Engineering, Incorporated believes that a quality design product is a result of paying close attention not only to engineering concerns, but also to client concerns. At Czarnecki Engineering we make it our business to provide innovative and comprehensive professional design solutions that work and package those solutions into design documents for our clients.