Offices in Illinois and Indiana
Licensed in Illinois, Indiana, Michigan, Mississippi and Ohio

NOVA
ENGINEERING, PC

Consulting Mechanical, Electrical and Plumbing Engineers

Nova Engineering, PC
17819 Chappel Avenue
Lansing, Illinois 60438

Ph: 708-889-0885
Fx: 708-889-0204
Nova Engineering, PC is a full service consulting engineering firm specializing in the design of mechanical, electrical and plumbing systems for the Commercial, Healthcare, Educational and Industrial markets.

Our engineers have the experience and qualifications to perform mechanical, electrical and plumbing engineering services for new construction, renovations and studies. We take pride in our ability to quickly understand the client’s needs and adjust our scope of services to economically meet those needs. We have the experience to analyze and design a project to the latest technical advancements and within its budgetary constraints.

Nova Engineering coordinates with the Client and other Professionals involved with the project to deliver a high quality product.
Nova Engineering offers the following services:

**Mechanical Engineering Services**
- Building Heating & Ventilation Systems
- Building Air Conditioning Systems
- Building Plumbing Systems
- Chiller & Boiler Plants
- Campus Planning

**Electrical Engineering Services**
- Building Lighting Systems
- Building Power Systems
- Emergency Generation Systems
- Communication Systems
- Fire Alarm Systems
- Substation Design
- Power Distribution

**General Engineering Services**
- Feasibility Studies
- Cost Estimates
- Bidding Assistance and Analysis
- Shop Drawing Review
- Project Observation
- Value Engineering
- Construction Observation
Nova Engineering has experience on the following types of projects:

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COMMERCIAL PROJECT EXPERIENCE

**Office Buildings**
- Cook County Building, 4th Floor Renovations - Chicago, Illinois
- High Point One, Four-Story Office Building - Frankfort, Illinois
- High Point Two, Four-Story Office Building - Frankfort, Illinois
- Homewood Disposal Office Building - Homewood, Illinois
- Remax Office Building - Chicago, Illinois
- Mostellar Office Building - Willowbrook, Illinois
- Tech3 Engineering Office Building - Crete, Illinois
- Lawyer Office - Orland Park, Illinois
- Pilcher-Hamilton Office Building - Willowbrook, Illinois
- McClement Office Building - Willowbrook, Illinois
- Cattaneo Office Building - Darien, Illinois
- Conroy Media Office Building - Willowbrook, Illinois
- Silliker Labs 60,000 sq ft Office Building - Frankfort, Illinois
- Z&Z Construction 13,000 sq ft Office Building - Mokena, Illinois

**Warehouses**
- Refrigerated Warehouse - Chicago, Illinois
- Liquid Storage Facility - Lowell, Indiana
- 100,000 sq ft Warehouse - Darien, Illinois
- Warehouse - Mokena, Illinois

**Banks**
- First United Bank New Branch Building - Frankfort, Illinois
- First United Bank Addition & Renovation - Steger, Illinois
- First United Bank Generator Addition - Naperville, Illinois
COMMERCIAL PROJECT EXPERIENCE

**Religious Buildings**
- AME Church - Gary, Indiana
- Emerald Ave Church - Chicago, Illinois
- 20,000 sq ft Mosque - Cook County, Illinois
- American Islamic Mosque - Frankfort, Illinois
- Bethel Church Classroom Addition - Lansing, Illinois

**Retail**
- Oswego Junction Shopping Center - Oswego, Illinois
- Sutton Suzuki - Matteson, Illinois
- Mitsubishi Motors - South Holland, Illinois
- Marley Creek Strip Mall - Orland Park, Illinois
- Suzies Hallmark Retail/Residential Building - Homewood, Illinois
- Klean Car Wash, Lube & Convenience Store - Chicago, Illinois
- Walgreens 41,000 sq sf Computer Center - Bolingbrook, Illinois
- Kasia Foods 45,000 sq ft Food Process Plant - Chicago, Illinois
- Caputos 50,000 sq sf Supermarket - Addison, Illinois

**Restaurants**
- Aurelios 20,000 sq sf Restaurant - Frankfort, Illinois
- Angelino’s 16,000 sq sf Restaurant - Frankfort, Illinois
COMMERCIAL PROJECT EXPERIENCE

Other

- Locomotive Repair Facility - Beecher, Illinois
- Truck Repair Facility - South Holland, Illinois
- Food Processing Plant - Gurnee, Illinois
- Kurtz Memorial Funeral Home - Frankfort, Illinois
- Bradley Baseball Complex - Bradley, Illinois
- Street Lighting Upgrades - Kankakee, Illinois

80 inch Strip Mill
EDUCATIONAL PROJECT EXPERIENCE

Purdue University
West Lafayette, Indiana

- Numerous High Voltage Distribution Projects
- Radiation Therapy Facility
- Visual Performing Arts 300 Seat Auditorium
- Windsor Hall 61,000 sq ft Food Service Facility
- Cary Quad West 60,000 sq ft Dormitory Renovation
- Cary Quad South 150,000 sq ft Dormitory Renovation
- Stadium Ave Dinning Court
- Elliot Hall of Music Electrical Feeder Upgrade
- Power Plant Smoke Stack Lighting
- Power Plant Electrical Room Air Conditioning
- Brown Laboratory Energy Recovery Project
- Stewart Center Cooling Water Upgrade
- Krannert Building Duct Bank
- West Campus Duct Bank
- Major Campus Utility Upgrade of 20 buildings to 12 KV
EDUCATIONAL PROJECT EXPERIENCE

Purdue University Calumet
Hammond, Indiana
- High Voltage Distribution Study
- Physical Education Building Mechanical Upgrades
- Gyte Building Classroom Renovation
- Walkway Lighting Upgrade
- Computer Power Upgrade
- Physical Education Building Structural Study
- Campus Backup Power Study

Indiana University
Bloomington, Indiana
- Jordan Hall Greenhouse Renovation

Ivy Tech
Lafayette, Indiana
- Technology Building 77,000 sq ft Addition & Renovation

Bryant Elementary School
Harvey, Illinois
- New 59,000 sq ft School

Holmes Elementary School
Harvey, Illinois
- 22,000 sq ft Addition
- Unit Vent Replacement

Whittier Elementary School
Harvey, Illinois
- 40,000 sq ft Addition

St. George Elementary School
St. George, Illinois
- 24,000 sq ft Addition
- State Funding Study
- Unit Ventilator Upgrade
EDUCATIONAL PROJECT EXPERIENCE

Triton College
River Grove, Illinois
- Generator Installation
- Power System Study

Sahs School
Stickney, Illinois
- Swimming Pool Renovation

Kennedy High School
Kankakee, Illinois
- New Walk-In Freezers

Kankakee High School
Kankakee, Illinois
- New Walk-In Freezers and Unit Ventilator Upgrade

Kankakee Junior High School
Kankakee, Illinois
- New Walk-In Freezers and Unit Ventilator Upgrade

Iroquois High School
Gilman, Illinois
- Shower Renovation
- Kitchen Renovation

Iroquois Middle School
Iroquois County, Illinois
- Shower Renovation

Watseka High School
Iroquois County, Illinois
- Bathroom Renovation

Sandburg Elementary School
Harvey, Illinois
- Unit Vent Replacement

Harvey Elementary School
Harvey, Illinois
- Life Safety Studies
EDUCATIONAL PROJECT EXPERIENCE

**Bradley High School**
Bradley, Illinois
- Unit Ventilator Upgrade

**Bradley Elementary School**
Bradley, Illinois
- Life Safety Study & Upgrades
- State Funding Study

**Bremen Dist 228**
Tinley Park, Illinois
- Performance Contract Review

**Tippecanoe School Corporation**
Lafayette, Indiana
- McCutcheon High School Press Box Replacement
- McCutcheon HS – New Academic Center
- Harrison High School Press Box Replacement
- Harrison HS – New Locker Room Facilities
- Battle Ground Elementary School Addition & Renovation
- New North Middle School – New 160,000 sq ft facility

**Lake Central Middle School**
St. John, Indiana
- New 220,000 sq ft Facility
HEALTHCARE PROJECT EXPERIENCE

Community Hospital
Munster, Indiana
- Six-Story, 180,000 sq ft Emergency Department & Medical Offices
- Addition of 5th & 6th Floor Medical Office Building
- Neo-Natal Renovation
- Power Plant & Emergency Generator System Upgrade
- Variable Speed Pumping Study

St. Mary Medical Center
Hobart, Indiana
- Six-Story, 160,000 sq ft Inpatient Bed Tower
- LDRP Renovation
- Emergency Generator System Upgrade
- Chiller Plant Upgrade
- Medical Gases Upgrade
**Healthcare Project Experience**

**St. Anthony Medical Center**  
Crown Point, Indiana  
- PET Scan Addition  
- Chilled Water Study  
- Power Distribution Study  
- Utilities upgrade for Computer server Center

**Forest Medical Outpatient Facility**  
Justice, Illinois  
- Six Surgical Suites Renovation

**Dr. Ramsey**  
Willowbrook, Illinois  
- Surgical Suite

**Rehab Institute of Chicago**  
Willowbrook, Illinois  
- 10,000 sq ft Rehabilitation Center

**Medical Office Buildings**  
- Advocate - South  
  Holland, Illinois  
- Dr. Ward -  
  Willowbrook, Illinois  
- Dr. Bamsai -  
  Willowbrook, Illinois  
- Intermed Oncology - Homewood, Illinois  
- Dr. Rosner – Willowbrook, Illinois  
- Western Dupage OBGYN – Willowbrook, Illinois  
- Dr. Joseph – Willowbrook, Illinois  
- Aunt Martha’s – Aurora, Illinois  
- Aunt Martha’s – Chicago Heights, Illinois  
- St. John Riverview Hospital – 4-story MOB – Detroit, Michigan  
- Tri-City Mental Health – Highland, Indiana  
- St. James Hospital – Olympia Fields, Illinois
HEALTHCARE PROJECT EXPERIENCE

MRI Departments

- Garland MRI Suite – Mt. Sinai Hospital - Chicago, Illinois
- Southwest Hospital - Oak Lawn, Illinois
- St. Mary Hospital Outpatient Facility – Portage, Indiana
- Dr. Sharazi – Naperville, Illinois

X-Ray Departments

- UIC Hospital – Chicago, Illinois

Dental Offices

- Small Smiles – Naperville, Illinois
- Dr. Bartola - Naperville, Illinois
- Dr. Munar - Willowbrook, Illinois
Jeffrey A. Sherlund, P.E.
Principal/Mechanical Engineer

**General Background**

Responsible for the day-to-day operations of Nova Engineering. These responsibilities include client development and project management of Nova’s mechanical, plumbing and fire protection design teams.

**Experience**

Mr. Sherlund has engineering experience in the Mechanical, Plumbing and Fire Protection fields on projects ranging from 1,000,000 s.f. manufacturing facilities and large Hospital facilities to smaller institutional and commercial projects. He has also spent time in the industrial field of mechanical engineering.

**Education**

Bachelor of Science Degree in Mechanical Engineering Purdue University (1987)

**Professional Registration**

Registered Professional Engineer in Illinois, Indiana, Michigan, Mississippi
KEY PERSONNEL

Michael C. Zuccarelli, P.E.
Principal/Electrical Engineer

General Background

Vice President responsible for the day-to-day operations of Nova Engineering, client development and project management of the firm's electrical design team.

Experience

Mr. Zuccarelli is responsible for designing power distribution and lighting systems for healthcare facilities, institutions, commercial buildings and industrial facilities. Responsible for all aspects of projects including the development of bid specifications, drawings, construction cost estimates, load studies, voltage drop calculations, short circuit calculations and system coordination studies.

Education

Bachelor of Science Degree in Electrical Engineering Purdue University (1988)

Professional Registration

Registered Professional Engineer in Illinois and Indiana.
William B. Rosenthal, P.E.
Principal/Electrical Engineer

General Background

Responsible for the day-to-day operations of Nova Engineering, client development and project management of the firm’s electrical design team.

Experience

Mr. Rosenthal worked for design engineering firms since 1973. Started as a design engineer, prepared drawings the old fashioned way, with a pencil, paper and lots of erasers. Career progressed from a design engineer to a project electrical engineer to a department head to a partner in Nova Engineering. Responsible for designing power distribution and lighting systems for institutions, commercial buildings and industrial facilities. Responsible for all aspects of projects including the development of bid specifications, drawings, construction cost estimates, load studies, voltage drop calculations, short circuit calculations and system coordination studies.

Education

Bachelor of Science Degree in Electrical Engineering Purdue University (1973)

Professional Registration

Registered Professional Engineer in Illinois, Indiana, Ohio and Michigan.