



## KARPINSKI ENGINEERING

### Firm Profile



***I have worked on projects across the U.S., and Karpinski has the best engineers I have ever met.***

Aparna Bapu, Owner's Representative  
Aparna Bapu Consulting

## TOP 100

**MEP Firm: Consulting-Specifying Engineer and Building Design + Construction**

## 5 LOCATIONS

Cleveland, Columbus, Pittsburgh, Akron-Canton, and Jamestown NY

## 1983

Year Founded

**Karpinski Engineering is an award-winning, multidisciplinary engineering firm.** We partner with clients to design environments that make a positive impact on people and communities.

Karpinski is known for mechanical, electrical, and plumbing engineering, but we are so much more than MEP. Clients turn to Karpinski for technology design, specialty fire protection engineering, and civil engineering, as well as energy, sustainability, and commissioning services. We apply our diverse experience to develop effective solutions to our clients' toughest engineering challenges.

**With our sustainable design experience, we help clients improve their environmental impact and optimize their energy use.** We have contributed to 90+ LEED Certified projects, 3 WELL projects (in progress), and 40+ geothermal projects. Our team includes Certified Energy Managers and LEED Accredited Professionals, and a Certified Geothermal Designer. Karpinski staff participate in ASHRAE national technical committees on building energy performance, district utility systems, and healthcare.

**Collaboration is part of our culture, influencing how we work with one another and how we deliver projects.** We have specialized expertise in team-based project delivery, including integrated project delivery (IPD), Lean, design-assist, and design-build. Team members have presented at national and regional events – including the Lean Construction Institute Congress and the COAA Owners Leadership Conference.

**When it comes to design tools, we are experts in Revit and Building Information Modeling (BIM).** We use them to create powerful visuals, show design intent, and smooth the transition from design to construction. Today, our MEPT design team produces all projects in Revit, and we are continually developing new ways to streamline processes and optimize workflow.



## KARPINSKI ENGINEERING

### Response Requests

**Entity / Business Name, summary of services, and relevant experience**

- < Cleveland Clinic Ring Bus
- < Cleveland Thermal Hamilton Plant Phase 1 and 2

**What role(s) from Section 3 would the respondent fulfill?**

- < Design/Engineering

**Please provide a brief description of relevant experience for each role.**

- < Karpinski Engineering is an MEPT and civil design and commissioning firm. We have experience in building electrical infrastructure, Mechanical central plant systems and building automation, control, and smart building technology. We provide design solutions and construction documents for both individual buildings and campus systems that require an understanding of distributed and centralized energy systems. In addition to building and campus infrastructure systems, Karpinski Engineering has experience in predictive energy modeling for building and campus energy usage.

**Please provide any edits to the role's definition or responsibilities.**

- < No Comment

**Optional - Within this section, consider providing a hypothetical organizational chart, a Responsible, Accountable, Consulted, and Informed (RACI) matrix, or other visual to help define roles and relationships.**

- < No Comment

**Are there other roles not identified in Section 3 that the County should be aware of?**

**What duties would these new roles perform?**

- < No Comment

**What else should the County know about each newly defined role?**

- < No Comment

**What challenges or barriers could you see for your role(s) as envisioned by the County and what might be ways for the County to address those challenges?**

- < It is important for the county to define the components of the project that can be broken into contracts and service agreements. Identifying the delivery method for these components is important to allow for a collaborative teaming approach through the RFQ and RFP process.

**What's the typical timeline/cycle for the respondents proposed role(s)? (e.g. it takes X year(s) to find customers for a microgrid and build it)**

- < No comment at this time

**Would the respondent meet with the County and / or its representatives to present ideas and to answer follow up questions?**

- < Yes

**All respondents will be placed on a list for other respondents to consider for teaming and/or subcontracting. If your entity requires exclusion from this list, please state so.**

- < No Exclusion

**Optional / Encouraged Information:**

**Published case studies**

- < Cleveland Clinic Ring Bus
- < Cleveland Thermal Hamilton Plant Phase 1 and 2
- < NASA Electrical Infrastructure

**Press releases**

- < Cleveland Clinic Ring Bus



## C. JOSEPH HOFSTETTER, PE, CEM, LEED AP

Principal, Director of Building Performance and Sustainability



### ABOUT JOE

Joe Hofstetter is a strategic thinker, combining big-picture vision with nuts-and-bolts practicality. He leads teams through the lifecycle of a project, from up-front planning, to design strategy, to contract administration.

Joe is committed to helping clients improve their MEP systems and facilities so they can get more value out of their building assets. He has a knack for taking mounds of facility data and organizing it into a focused plan aligned with specific goals. He has worked with organizations to develop sustainable design solutions, plan and implement energy improvement measures, and upgrade facility infrastructure.

### CREDENTIALS

- ◀ Bachelor of Science, Mechanical Engineering Technology, University of Dayton
- ◀ Master of Business Administration, Baldwin Wallace University
- ◀ Certified Energy Manager (CEM)
- ◀ LEED Accredited Professional
- ◀ Ohio Mechanical Engineer #75195

### HIGHLIGHTS

- ◀ ASHRAE Member
- ◀ Voting Member, ASHRAE National Technical Committee for Building Energy Performance
- ◀ Principal Author & Committee Chair, ASHRAE Procedures for Commercial Building Energy Audits, 3rd Edition
- ◀ Advisory Council Member, Baldwin Wallace University Institute for Sustainable Business Practice

### THOUGHT LEADERSHIP

- ◀ **LEED v4 and Commissioning: Selecting the Right Option for Your Project**, Design Columbus 2019, Co-Presenter

### SELECT PROJECTS

#### VIRGIL E. BROWN CENTER ENERGY AUDIT

Cuyahoga County | Cleveland, Ohio

290,000 SF | 7-Story, All-Glass Building | Central Chiller and Boiler Replacement

#### GEOHERMAL HVAC ENERGY ASSESSMENT & IMPROVEMENTS

Lake Erie Nature & Science Center | Bay Village, Ohio

15,000 SF | Resolved Issues with HVAC System Operations | Reduced Building Energy Use by Projected 35%

#### ENERGY AUDIT AND FACILITY UPGRADES

Rocky River School District | Rocky River, Ohio

District-Wide | 553,000 SF | Facility Upgrades to Improve Building Performance

#### HUNTINGTON CONVENTION CENTER & GLOBAL CENTER FOR HEALTH INNOVATION

Cuyahoga County | Cleveland, Ohio

Signature Building | LEED Measurement & Verification | LEED Gold Certified | Design-Assist

#### MEASUREMENT AND VERIFICATION

Huntington Convention Center of Cleveland and Global Center for Health Innovation | Cleveland, Ohio

Existing Conditions | 984,000 SF | LEED Consulting Services

#### AEP OHIO RETRO-COMMISSIONING ENERGY SERVICES

OhioHealth | Riverside Methodist Hospital | Columbus, Ohio

Applied Retro-Cx Process to Develop Energy Improvement Measures | Provided Energy Audits and Preliminary Energy End-Use Analysis

#### TRIPOINT MEDICAL CENTER | ENERGY IMPROVEMENT PROJECT

Lake Health | Concord Township, Ohio

Energy Conservation Measures | \$850,000 | 300,000 SF



## **JAMES T. CICERO, PE, LEED AP**

### **President**



### **ABOUT JIM**

Jim Cicero is passionate about engineering. As President of Karpinski Engineering, he provides strategic vision and leadership, and he connects with clients and design partners. Jim believes in consistently listening and asking questions, because each client has a unique set of values. Under his leadership, Karpinski Engineering's employees strive to provide comprehensive designs that align with our customer's goals and expectations.

With more than 25 years of experience as an electrical engineer specializing in systems for healthcare facilities, Jim has focused on power distribution, lighting, and communication systems.

### **CREDENTIALS**

- ◀ Bachelor of Science, Electrical Engineering, University of Akron
- ◀ Master of Business Administration, Cleveland State University
- ◀ LEED Accredited Professional
- ◀ Ohio Professional Engineer #57397

### **HIGHLIGHTS**

- ◀ Founding Partner, Cogence Alliance
- ◀ Public Works Committee, ACEC Ohio

### **THOUGHT LEADERSHIP**

- ◀ **How Owners Can Use Design-Assist to Reduce Project Risks and Increase Confidence**, OFCC Conference 2018, Co-Presenter, Columbus and Cleveland, Ohio, August 2018
- ◀ **Improving Project Delivery Through Design-Assist**, COAA - Pennsylvania Fall Workshop, Co-Presenter, State College, Pennsylvania, September 2016

### **SELECT PROJECTS**

#### **JAMES A. RHODES STATE OFFICE TOWER**

**State of Ohio | Columbus, Ohio**

Arc Flash Hazard Analysis | 43-story office building | 1.2 M SF

#### **CAMPUS ELECTRICAL INFRASTRUCTURE**

**Cleveland Clinic | Cleveland, Ohio**

Design-Assist | Serves 11M SF of Facilities | Implemented w/o Interrupting Patient Care

#### **LUTHERAN HOSPITAL EMERGENCY DEPARTMENT**

**Cleveland Clinic | Cleveland, Ohio**

Addition & Renovation | \$17.7 M | Multi-phased construction

#### **GLOBAL CENTER FOR HEALTH INNOVATION**

**Cleveland Medical Mart | Cleveland, Ohio**

Design-Assist | Signature Building | Designed for Tenant Fit-Out

#### **CORPORATE HEADQUARTERS**

**Goodyear Tire & Rubber Company | Akron, Ohio**

New 885,000 SF Headquarters | \$148 M | LEED Gold Certified

#### **HIGH-RISE OFFICE BUILDING GENERATOR**

**Motorists Insurance | Columbus, Ohio**

21-Story Building | Supports Multiple Adjacent Facilities

#### **OFFICE, LAB, & MANUFACTURING FACILITY**

**Lord Corporation | Erie, Pennsylvania**

600,000 SF | 100,000 SF Office Space | Offices, Fitness Center, Dining Areas

#### **EATON CENTER**

**Eaton Corporation | Highland Heights, Ohio**

10-story Office Tower | 986,000 SF | Sustainable Design Features Throughout Facility





## KARPINSKI ENGINEERING

### Government Experience



#### **Cuyahoga County, Ohio**

Administrative Headquarters, LEED Gold Certified  
Virgil E. Brown Center Energy Audit  
Community Based Correctional Facility  
Coroner's Office and Laboratory  
Harvard Avenue Maintenance Facility

#### **Geauga County, Ohio**

New Administration Building Site Design

#### **U.S. Army Reserves**

Fort Pickett Regional Training Institute

#### **U.S. Coast Guard**

Cleveland Moorings New Operations Building, LEED Gold Certified

#### **Springfield Air National Guard Base**

Building 144 Renovation

#### **Ohio Supreme Court**

Moyer Judicial Center Fuel Oil Leak Detection System

#### **Ohio State Highway Patrol**

Alum Creek Crime Lab Addition  
Law Enforcement Automated Data Centers

#### **Rickenbacker Air National Guard Base**

Hazardous Storage Building  
Maintenance Building  
Building 2000 Atrium Lighting

#### **Global Borders College**

Advanced Training Center, LEED Gold Certified  
Residence Halls and Conference Center

#### **Metzenbaum Federal U.S. Courthouse**

MEP Systems Study

#### **NASA Plum Brook Station**

Space Power Facility Renovations

#### **State of Ohio / OFCC**

BCI Data Center Commissioning  
Computer Center HVAC & Controls Commissioning

#### **NASA Glenn Research Center**

FY13 ERB Complex Low Voltage Electrical Distribution System Repairs  
Low Voltage Arc Flash Hazard Analysis  
Security Upgrades

#### **Ohio Division of State Fire Marshal**

Forensic Storage and Maintenance Building Addition





## BUILDING PERFORMANCE & SUSTAINABILITY

### Renewable Energy Experience



# 35+

Geothermal Projects



# 90+

LEED Certified Projects



Karpinski Engineering brings applied experience with a variety of renewable energy systems and sustainable design strategies.

#### GEOTHERMAL

We have extensive geothermal experience, providing design, commissioning, and retro-commissioning of all-geothermal and hybrid geothermal systems. Our staff includes a Certified Geoexchange Designer (CGD) – one of only 5 in the State of Ohio. We have completed more than 35 geothermal projects, serving facilities that range in size from 4,000 SF to 325,000 SF. Projects include:

- ◀ Cleveland Heights-University Heights High School
- ◀ Trinity Commons at Trinity Cathedral
- ◀ University School Academic Wing Addition
- ◀ Baldwin Wallace University Durst Welcome Center
- ◀ Edinboro University Highlands Student Housing
- ◀ Cleveland State University Parker Hannifin Hall & Administration Center
- ◀ Cuyahoga County Public Library Warrensville Heights Branch

#### SOLAR INTEGRATION

We also bring experience with photovoltaic (solar) power and solar panel integration. Our firm has collaborated with solar panel vendors and designers to integrate the photovoltaic system with a building's electrical distribution system. Projects have been for both public and private clients – offices buildings, a healthcare center, and a maintenance facility. Projects include:

- ◀ University Hospitals Rainbow Center for Women & Children, LEED Platinum Certified
- ◀ Eaton Corporation Eaton Center
- ◀ Jewish Federation of Cleveland Building
- ◀ Cuyahoga County Harvard Avenue Maintenance Facility

#### WIND TURBINE INTEGRATION

Additionally, on one higher education project, our team integrated the power connection of a wind turbine into the building's electrical system.

- ◀ Kent State University Stark Campus Science & Nursing Building

#### RAINWATER HARVESTING SYSTEM

One of our staff members brings experience (from a previous employer) designing a large rainwater harvesting and infiltration system for a public client. For this type of system, we would coordinate among the civil, landscaping, and plumbing design staff, attentive to the proper sizing of the system. Understanding operations would be an important component, so that we use the appropriate amount of treatment for the rainwater.