

A photograph of a modern, multi-story building with a large glass facade, illuminated from within at dusk. The building features a mix of glass and stone or concrete panels. The sky is a soft, pale blue. In the foreground, there is a paved area and some greenery.

**MICHIGAN STATE UNIVERSITY MULTICULTURAL CENTER
FEASIBILITY STUDY - CP19101**

JANUARY 2020

HAMILTON ANDERSON | MOODY NOLAN

January 15, 2020

Planning, Design and Construction
Infrastructure Planning and Facilities
1147 Chestnut, Room 101
East Lansing, MI 48824-1215

Re: Multicultural Center Feasibility Study

Dear Selection Committee,

Our interdisciplinary team is pleased to submit our proposal to provide consulting and design services to the Michigan State University. The vision of the university offers an exciting new model of innovation for a Multi-Cultural Center at MSU. The center will promote many of the goals and mission of the university to be a truly diverse, inclusive and equitable learning environment.

Our team is inspired by the scope and vision driving Michigan State University. Our experience as both architects and engineers with diverse minority representation matches our enthusiasm with an understanding that in order to fulfill the vision for MSU, we must orchestrate a design process that extends beyond the scope of services of a conventional architectural project. Responding to the full aspirations of your vision (and addressing its implicit challenges) calls for something more than an off-the-shelf architecture solution. We propose an ambitious, innovative, research-design approach. Through this approach, we will revisit the programming phase of the project, and will embark on a research and fact-finding phase engaging with students and stakeholders that will allow us to fully develop spatial and material strategies to embody the pedagogical ideas within the vision for the School, from initial ideation to detailed implementation. Our process will also provide the opportunity to develop our design solution through the ongoing input of stakeholders to develop expansive, inviting, and exceptional environments. We truly believe that our proposal articulates a process that matches the ambition and vision for the Michigan State University, and one that optimizes the unique strengths and contributions of our team.

To reimagine the spatial and civic organization of an educational institution, we have assembled a team with a breadth of relevant expertise. Our core collaboration brings together Hamilton Anderson Associates with Moody Nolan (from Columbus Ohio). Both offices, working together, boast a reputable track record for delivering educational and urban projects with the robust capacities for stakeholder engagement, design iteration, feasibility analysis, and documentation. The team also includes: Desai Nasr/IMEG for structural engineering; PBA Associates for MEP engineering; and Stephen Kirk Associates for cost modelling and assessment. The team members we have brought to you have fluidity as we have worked together for years on various projects and will contribute expertise in sustainable design and connectivity to the overall design effort.

Our team is brought together by a conviction that cultural acuity, adaptability, and programmatic innovation are critical to creating a sense of joy, liberation, and belonging in academic institutions. We are delighted to present our expression of interest, and very much hope to be able to work with you on this exciting and challenging project.

Sincerely,



Rainy Hamilton, Jr. FAIA, NOMA



MICHIGAN STATE UNIVERSITY MULTICULTURAL CENTER-FEASIBILITY STUDY
 CP19101 | JANUARY 15, 2020

FIRM OVERVIEW

Hamilton Anderson Associates (HAA) is an award winning, multi-disciplinary design firm dedicated to improving the built environment through creative, contemporary design. Our design process combines rigorous analysis, intuitive curiosity, and thoughtful execution to create inspiring, contextually responsive solutions. **Our legacy in the architecture community and repeated display of design excellence led us to receive the Architecture Firm of the Year award from the American Institute of Architect's Michigan Chapter (AIAMI) in 2019.**

Our diversity in background, education, and professional experience is blended with solid experience working on projects ranging from small scale city parks to technologically sophisticated new arts high schools, regional master plans, corporate interiors, and multi-million dollar urban design plans. We are not specialists, but rather believers in the merit of well-informed, broad professional experience — that when brought together — will inform the basis of superior design.

1. THE HAMILTON ANDERSON PHILOSOPHY

Good design evolves from what is contextually important for the campus and our clients. We acknowledge tradition, address current needs and express forward thinking concepts to create spaces and amenities that are universally embraced and timeless. Our interdisciplinary process to learning space design is participatory, collaborative, engaging and centered around building consensus.

PARTICIPATORY

We believe broad participation and diverse viewpoints lead to the best outcomes. We will encourage participation by leadership, faculty, and students to create a plan that is implementable, functional, and reflective of the University's needs. Our Workshop/ Charette Process provides a venue for all stakeholders to provide input into the development of the program statement including discussions of mission and vision for the project. Through several facilitated meetings we define, document, and explore ways to meet the mission and vision for the project.

ENGAGING

We have the capability to employ highly interactive tools through our design process, such as physical models, interactive digital imagery, and animated walk-throughs to communicate design options and bring the best design to life. We also employ our methodology of Cost, Program and Quality Modeling where the cost for the project is developed in real-time so that alternative solutions can be explored while understanding the total project costs. This process was utilized for the MSU Wells Hall Project (HAA-IDS). Through a series of workshops that included Cost, Program and Quality Modeling, a solution was crafted that met complex program requirements including temporary use of the existing building during construction. Working collaborative with the entire design – build team, including the construction manager, the project was successful including new collaborative workspace which minimized small private offices.

CONSENSUS

Being heard is often a key concern for stakeholders. HAA excels at building consensus and ensuring communication leads to clear expectations among parties. We provide a safe environment for all vested decision makers to voice ideas and engage in healthy vetting conversations to reach consensus.

COLLABORATION

HAA's methodology emphasizes collaboration with the client, stakeholder and allied professionals. It is responsive to all constituents of the plan, defined by strategies that set the vision and roles that are shared with the client team. We place high importance on dialogue about the goals, givens and intentions. We want a process as open and transparent as possible, to clarify priorities and build consensus.

FIRM INFORMATION

Hamilton Anderson Associates, Inc.
 1435 Randolph Street, Suite 200
 Detroit, MI 48226

YEAR ESTABLISHED

1990

PRINCIPAL/OWNER

Rainy Hamilton, Jr. FAIA, NOMA

Certified Minority Business Enterprise (MBE)

TYPE OF ORGANIZATION

S-Corporation

FEDERAL ID #

38-3193028

SERVICES

Architecture
 Interior Design
 Landscape Architecture
 Urban Planning

COMPANY SIZE

32 personnel
 Administrative _____ 5
 Architects _____ 18
 Interior Designers _____ 2
 Landscape Architects _____ 4
 Project Managers _____ 3

COMPANY REPRESENTATIVE

Rainy Hamilton, Jr. FAIA, NOMA
 rhamilton@hamilton-anderson.com
 313-887-6245

PROFESSIONAL LIABILITY INSURANCE

Professional Liability Insurance Limit: \$5 Million Dollars

DESIGN TEAM

Architecture | Interior Design

Rainy Hamilton, Jr. FAIA, NOMA
 Principal-in-Charge

DaMarlon Carter
 Project Director/Sr. Project Manager

Alhan Jaafar
 Director of Interior Design

Atiqur Rahman
 Architect



**MICHIGAN STATE UNIVERSITY
 Wells Hall**

East Lansing, MI
 Hamilton Anderson Associates collaborated on a team to program and design a new academic building for Michigan State University. MSU desired to replace Morrill Hall located at their main East Lansing campus. The project involved demolition of the existing Morrill Hall, the construction of a new replacement facility and additional renovation space that includes office space, classroom facilities and programs of various academic departments. As lead design architect and landscape architect, HAA created a new state-of-the-art facility and classroom building to foster advanced, interactive learning and the open, collaborative exchange of ideas.



**WAYNE STATE UNIVERSITY
 Welcome Center**

Detroit, MI
 Positioned in the heart of Midtown, adjacent to some of Detroit's most popular cultural attractions, Wayne State University's (WSU) Welcome Center Complex is the gateway that links Michigan's only urban research university to the surrounding neighborhoods. The Welcome Center's new four-story, glass building, which represented a collaborative design effort between Hamilton Anderson and Rossetti Architects, offered students a 70,000 sq. ft. central meeting space. Hamilton Anderson then continued the vision and completed a 722-car parking garage, a 28,000 sq. ft., two-story University Bookstore and a Welcome Court.



**WAYNE STATE UNIVERSITY
 School of Social Work**

Detroit, MI
 The Wayne State University School of Social Work's mission is to transmit, develop, critically examine, and apply knowledge to advance social work practice and social welfare policy in order to promote social, cultural and economic justice for the betterment of poor, vulnerable, and oppressed individuals, families, groups, communities, organizations, and society. Hamilton Anderson worked with Wayne State University to facilitate these key values by efficiently converting an existing day care facility into a new home for the Department. The design successfully transforms the building into a dynamic learning space with natural light and new amenities.



**SHRINE OF THE BLACK MADONNA
 Cultural Center**

Detroit, MI
 The Shrine of the Black Madonna of the Pan African Orthodox Christian Church engaged Hamilton Anderson in the redesign of their cultural center and bookstore. HAA has helped the Shrine of the Black Madonna determine the vision of their cultural center and bookstore by engaging with their congregation and board members, holding community engagement sessions, and creating presentations to acquire funding.

MICHIGAN STATE UNIVERSITY MULTICULTURAL CENTER-FEASIBILITY STUDY
CP19101 | JANUARY 15, 2020

FIRM OVERVIEW

Moody Nolan is much more than an architecture firm. At heart, we're entrepreneurs. We adapt our talents quickly to address each client's unique vision. In doing so, we create functional yet iconic design statements that respond to ever-evolving spaces, aesthetics and site dynamics. Simply put, spaces that perform and inspire.

Our firm designs more than \$1 billion of building construction each year. As the largest African American owned and managed design firm in the country, we maintain a strong commitment to diversity in our staff, as well as in our approach to solving client problems. Our expertise in a broad range of industries allows us to think inventively and design solutions that are responsive to client needs.

As creative problem solvers, we meet you where you are, giving every client access to the right people and thinking, at just the right time. Headquartered in Columbus, Ohio, we have offices in Atlanta, Boston, Chicago, Cincinnati, Cleveland, Covington, Dallas, Houston, Nashville, New York City and Washington, DC.

THE MOODY NOLAN PHILOSOPHY
RESPONSIVE ARCHITECTURE

One of our distinguishing qualities is our embrace of responsive architecture, a process that requires creative minds to listen intently, analyze effectively and deliver innovative, functional and aesthetically pleasing facilities while addressing clients' programs, budgets and scheduling needs. Early in our firm's history, we determined that this best-practice approach to satisfying our clients needed to be a firm-wide strategy. By providing multiple ideas, listening and working collaboratively with our clients, we create effective, custom solutions for each unique site, program and community.

AWARDS AND RECOGNITION

We consider every project to be an opportunity. To rise above the norm. To move the design conversation to new places. To create spaces that are memorable not just for a moment, but forever. This vision for responsive architecture is continually recognized by our peers and clients, and it has earned us more than 300 design citations, including 48 awards from the American Institute of Architects and 44 from the National Organization for Minority Architects.

SUSTAINABLE DESIGN

Concerns with sustainable, or even regenerative, design ("beyond green") have become a significant priority for today's design decision-makers. We embrace the challenge. Each project has opportunities that can be analyzed early in the design process to develop the best overall solutions for sustainable construction. The creation of tomorrow's efficient and environmentally-friendly buildings is no longer about optimizing individual systems, but about an integrated and informed whole-building approach. We believe this is what defines truly responsive design, and is one of the traits that defines Moody Nolan.

FIRM INFORMATION

300 Spruce Street, Suite 200
Columbus, OH

YEAR ESTABLISHED
1982

PRINCIPAL/OWNER

- Curtis J. Moody, FAIA, NCARB, NOMA, LEED AP
- Jonathan Moody, AIA, NCARB, NOMA, LEED AP
- Eileen Goodman, NCIDQ
- Brian Tibbs, AIA, NOMA, NCARB
- David King, CPA
- Robert K. Larrimer, AIA, NCARB, LEED AP
- Troy Sherrard, FAIA, NCARB, LEED AP
- Mark J. Bodien, AIA, NCARB, LEED AP
- Jay Boone, AIA
- Renauld D. Mitchell, AIA, NCARB, LEED AP
- Brian Tibbs, AIA, NCARB
- David Moody, PhD
- Curtis J. Moody, Jr.

Certified Minority Business Enterprise (MBE)

FEDERAL ID #

31-1256984

SERVICES

- Architecture
- Interior Design
- Experiential Design

COMPANY SIZE

220 personnel

Administrative	28
Architects	85
Architectural Designers	12
Architectural Staff	63
Construction Administrators	6
Graphic Designers	6
Interior Designers	18
Specification Writers	2

COMPANY REPRESENTATIVE

Jonathan Moody
jmoody@moodynolan.com
614-461-4664

DESIGN TEAM

- Architecture
- Jonathan Moody, AIA, NCARB, NOMA, LEED AP
CEO
- Miguel Gonzalez, LEED AP BD+C
Designer
- Earl Lee
Industrial & Experiential Designer



UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
Cultural, Ethnic & Gender / Women's Studies Building
Urbana-Champaign, IL

Moody Nolan collaborated on a team to provide a comprehensive feasibility study and development plan. The design is layered from public to private spaces with a large, flexible lobby, classrooms and multipurpose rooms on the ground floor; a social lounge and cultural centers on the middle floors; and quieter, more private spaces on the upper levels. The building is organized by a series of interlocking spaces, which weave together the different program elements. This interlocking is also expressed on the exterior as a series of projecting bays that provide expansive views of the campus. Each bay identifies a cultural center or academic unit. Outdoor terraces at the second and fifth floors provide flexible social spaces and several of the projecting bays include balconies overlooking the campus. There is a vegetated green roof that will provide habitat for a wide variety of birds and butterflies as well as keep the roof cool.



THE OHIO STATE UNIVERSITY
Frank W. Hale, Jr. Black Cultural Center
Columbus, OH

When the Cultural Center officially opened in 1989, the building was named in honor of a tireless mentor and civil rights crusader who fought to increase opportunities for minority students at the University. Moody Nolan originally served as interior design consultant and construction administrator. In 2019, Moody Nolan was commissioned to begin an expansion and optimization study. Currently underway, the project's goals are to create spatial improvements to enhance user experience, maintain the identity of the Cultural Center while allowing for equitable growth, promote inclusion through interdisciplinary educational and social environments, and provide versatile, active learning environments that foster educational and research opportunities for the students, faculty, alumni, and community.



PENN STATE UNIVERSITY
Paul Robeson Cultural Center
University Park, PA

Moody Nolan was selected as consulting architect to WTW Architects for the Paul Robeson Cultural Center. The facility is divided into three floors in order to participate with the Penn State University Student Center, called H.U.B. The first floor is dedicated as an African American art gallery. The second floor houses the Paul Robeson administrative staff, seven groups of international students, offices, and the library. The third floor, also known as the multipurpose floor, can be used as a ballroom, lecture hall, film festival or musical performance theater, and banquet hall.



VANDERBILT UNIVERSITY
Bishop Joseph Johnson Black Cultural Center
Nashville, TN

Moody Nolan, working as a consultant to Tuck-Hinton Architects, provided interior design services for the renovation and expansion of the Bishop Joseph Johnson Black Cultural Center. Named for the first African American student admitted to the University, the center is an architectural symbol of the bridge across the University's past, present and future. As a gathering place for learning and social interaction, the Cultural Center includes a 4,100 sq.ft. renovated early twentieth century building, which houses staff offices, a student lounge, library, computer lab, and seminar room. An addition of 4,000 sq.ft. includes additional staff offices, a catering kitchen, gallery, and lecture room that can be configured for a variety of presentation types.

MICHIGAN STATE UNIVERSITY

HAMILTON ANDERSON ASSOCIATES
 ARCHITECTURE | INTERIOR DESIGN

RAINY HAMILTON, JR.
 CO - PRINCIPAL-IN-CHARGE

DAMARLON CARTER
 PROJECT MANAGER

ALHAN JAAFAR
 DIRECTOR OF INTERIOR DESIGN

ATIQR RAHMAN
 ARCHITECT

PETER BASSO ASSOCIATES
 MECHANICAL, ELECTRICAL, PLUMBING

DESAI/NASR NOW IMEG
 STRUCTURAL ENGINEER

STEVE KIRK
 COST ESTIMATOR

MOODY NOLAN
 ARCHITECTURE | EXPERIENTIAL DESIGN

JOHNATHAN MOODY
 PRINCIPAL-IN-CHARGE

MIGUEL GONZALEZ
 DESIGNER

EARL LEE
 INDUSTRIAL & EXPERIENTIAL DESIGNER



RAINY HAMILTON, JR. FAIA, NOMA
 PRINCIPAL-IN-CHARGE

Rainy Hamilton, Jr. has a comprehensive understanding of the design industry and has built a practice that has accomplished national, award-winning designs. Rainy has a keen ability to quickly develop design solutions, organize and solve complex issues and craft solutions that are environmentally responsible and financially feasible. Known as a client-focused professional who recognizes the importance of effective communication, Rainy provides leadership and organization for complex, multi-phased, multi-million dollar projects for urban and campus sites.

RELEVANT EXPERIENCE

Michigan State University Wells Hall
 East Lansing, MI

Shrine of the Black Madonna Cultural Center
 Detroit, MI

Wayne State University School of Social Work
 Detroit, MI



JONATHAN MOODY, AIA, NOMA,
 NCARB, LEED AP
 PRINCIPAL-IN-CHARGE

Jonathan has more than 12 years of high-end design experience focused on integrating digital fabrication and social engagement into the design process. He approaches design with an overall goal of having a major positive impact on communities in need. For Jonathan, architecture is a medium through which people can be connected and inspired by giving tangible being into ideas. Over the last several years, he has passionately devoted himself to community service through mentoring and education programs focused on developing young men.

RELEVANT EXPERIENCE

Northwestern University The Black House
 Evanston, IL

City of Charleston International African American
 Museum
 Charleston, SC



DAMARLON CARTER, AIA, NCARB, RDI
 PROJECT DIRECTOR/SR. PROJECT MANAGER

Specializing in adaptive reuse and implementation strategies, DaMarlon has spent the last 17 years serving as senior project manager, studio leader, and ultimately studio principal while leading a multi-disciplinary design studio focused on service and specialty retail in California. DaMarlon brings a keen sense of design coupled with highly successful management and organizational expertise. These skills have proven results with national and international clients alike, where project execution is paramount.

RELEVANT EXPERIENCE

University of Detroit Mercy Student Center
 Detroit, MI

Shrine of the Black Madonna Cultural Center
 Detroit, MI



ALHAN JAAFAR, NCIDQ
 DIRECTOR OF INTERIOR DESIGN

Starting her career in New York City, Alhan Jaafar designed and managed luxury residential and commercial projects from creation to staging completed spaces. She has taken her experiences in one of the most urbanistic cities and applied them to the emerging growth of Detroit. Alhan's depth of experience facilitates a balance between function and aesthetics while giving close consideration to clients' needs during development. Her design philosophies and processes lead to successful projects which capture the mission of the new space with a fresh, creative and visionary eye.

RELEVANT EXPERIENCE

Shrine of the Black Madonna Cultural Center
 Detroit, MI

The Hamilton on Davenport
 Detroit, MI



ATIQR RAHMAN, NCARB
 ARCHITECT

Atiqur Rahman's passion for architecture grew from the idea of making a difference in society. Through this passion, he found the medium that allowed an immediate physical impact on the built environment. Atiqur developed a strong understanding of BIM and it's usage on projects. His exceptional understanding of BIM gave him the ability to quickly identify and solve complex issues on multi-million dollar projects. He was able to utilize the resources and progressive technology (such as BIM) to design and build solutions that allow architects to maintain responsibilities to clients, communities and the environment.

RELEVANT EXPERIENCE

BASCO Broadway Lofts
 Detroit, MI

Atlanta Castleberry
 Atlanta, GA



MIGUEL GONZALEZ, LEED AP BD+C
 DESIGNER

Miguel has more than 20 years of experience in various facets of the architectural field with a focus on the design, coordination and administration of residential, higher education, hospitality, commercial, mixed-use and interior projects. His working experience abroad has allowed Miguel to bring a unique, culturally-diverse perspective to his work. His design leadership, thoroughness and attention to detail have resulted in award-winning projects.

RELEVANT EXPERIENCE

University of Illinois at Urbana-Champaign
 Cultural, Ethnic & Gender/Women's Studies Building
 Urbana-Champaign, IL

University of Nebraska-Lincoln Jackie D. Gaughan
 Multicultural Center
 Lincoln, NE



EARL LEE
 INDUSTRIAL & EXPERIENTIAL DESIGNER

Earl brings more than 20 years of experience to the project team. His understanding of the finite details of design and technology as it relates to the built environment and how a brand plays out from its identity to signage and wayfinding add value to each and every collaborative team. Earl's strategic approach and utmost attention to detail have helped ensure that design solutions can be both innovative and cost effective.

RELEVANT EXPERIENCE

Northwestern University The Black House
 Evanston, IL

City of Charleston International African American
 Museum
 Charleston, SC

HAMILTON ANDERSON RESPONSE

1. Please reference Hamilton Anderson's Firm Overview page.

2. Hamilton Anderson is committed to meeting MSU's construction standards. As we develop the project should the need arise to consider deviations, we present all pertinent and relevant data for discussion and consideration. Only with approval of MSU will any deviation from the standards be utilized. HAA is currently working with the University of Detroit Mercy where independently gas-fired roof top units are being considered over the use of the campus wide steam distribution system. In this case, relevant data including first cost, replacement cost, maintenance expectations and energy usage are all being considered. Additionally, future demands on the steam system is also being considered.

3. Our team approaches studies in a process-oriented approach. An initial project understanding is obtained/created from client meeting(s) inclusive of understanding the mission and vision for the project. Research is conducted relative to compiling relevant information including site, existing conditions, utilities, codes, standards, zoning, etc. In some cases, benchmarking other comparable projects may be in order. A program is developed/refined with client input. It is important that cost be understood early on and confirmed through each step of the process. Design alternatives are created for client review and evaluation along with related cost information. The alternatives are developed to provide options on the approach as well as a means to stimulate creativity. This workshop approach enhances the creative process while building consensus amongst stakeholders. Meetings are conducted to select and/or refine a final alternative approach. Once vetted, the design alternative can then move forward into the phases of design and engineering. This process was utilized on the Wells Hall project at MSU as well as the Welcome Center Project for Wayne State University.

4. As an African American owned and operated corporation, Hamilton Anderson Associates remains committed to achieving diversity in all aspects of our business. Given the underrepresentation of minorities and women in the field of design and construction, HAA works every day to improve upon these circumstances. HAA provides opportunities for minority and women own vendors and consultants and also works to increase the exposure of students to the profession. HAA works with local and national Historically Black Universities and Colleges to offer positions of employment. HAA also supports and participates in the National Organization of Minority Architects (NOMA). As a result of these continuous efforts, our firm has a large percentage of women and minorities in leadership roles.

Our mission and goal is to work to re-imagine urban areas for the people and constituents that it serves. It is key that we employ active listening when working with our clients. We must engage with all stakeholders that are involved and/or will use to facilities or areas that we design. A city planner coined this phrase after a community meeting where the consultant team did not reflect the community – "Nothing designed for us, without us, can be for us!" We subscribe to this philosophy.

As we embark on this process, it is important that we document what we hear, see and sketch – that information, concerns, aspirations, goals, visions and mission statements, which will become part of the process of creating a viable solution.

MOODY NOLAN RESPONSE

1. What makes Moody Nolan unique is our approach to design. We use the phrase, "Responsive Architecture" because we design "your building". We respond to feedback provided and create a unique facility that responds to Community input while meeting the programmatic and educational philosophy of the District.

We propose informative, engaging Community Engagement Sessions (CES) for your feasibility study. These sessions are currently envisioned as conversations involving stakeholders to discuss:

1. Explain the feasibility process.
2. Present a range of potential solutions and gather input on the same.
4. Present a refined range of solutions and gather input on the same.
5. Present a further refined range of solutions and gather input on the same.

The general intent of these Community Engagement Sessions is to review the established vision driving the master plan, highlight findings and issues at each building, and thoughtfully articulate a range of possible solutions (all vetted in advance with the Facilities Committee). Information will be gathered that will inform the next round of solutions. This information gathering may be both "analogue" and "digital". Analogue may be as simple as "put your color dot on the solution you think most appropriate" whereas digital may be done via any number of available phone applications such as PollEverywhere, mQlicker or polltogo. This will allow for participants to engage in a way and to also see immediate results which can be discussed and vetted. Should the members decide after that discussion that the evaluation poll be responded to again, this is easily accomplished.

In the case of UIUC, design workshops were held with Executive and Steering Committee members to gather diversity in viewpoint and to afford administrators, faculty and cultural center directors the opportunity to hear from one another, fostering for both themselves and the design team a comprehensive understanding of how each fit into the whole. Workshops were themed, each building upon the previous to develop consensus among participants. A student-focused engagement was also conducted, with design concepts presented for feedback, along with discussion of environmental sustainability.

The design team explored multiple conceptual schemes, to develop what we call a "Nine Square". The Nine Square process examines nine unique, intentionally-diverse design approaches with hierarchal dialogue surrounding each. Key to this process is that none of the ideas are 'final' designs, nor are they intended to be evaluated in isolation from the others. Instead, the notion is that each concept will bring to light within itself and the others both merit and drawback, and in doing so, provide invaluable guidance to both stakeholders and the design team. The Nine Square schemes were evaluated with the various stakeholder groups in a design workshop, in order to distill these ideas into three schemes which were explored in more depth. A subsequent design workshop built upon the lessons learned from the previous, giving focus to the revised three schemes with the intent to create consensus around critical elements that ultimately informed the buildings conceptual design direction. One preferred scheme emerged and was carried forward as the basis of the feasibility study.

2. For the UIUC project, the design team examined both the immediate site surroundings and recently-completed campus buildings to establish the context for the project's architectural language. Discussions were held with Facilities and Services representatives to discuss the integration of campus design standards into the developing architectural schemes. It was noted that the emerging schemes strayed from the campus' Georgian legacy.

The design team found that while the campus is Georgian in its heritage and prevailing vernacular, a diverse design aesthetic has emerged in recent years, with several recent buildings using materiality to maintain visual continuity while pushing the boundaries of form and massing expression. Because of both its program and the constituencies served (six cultural centers, five academic units and shared spaces), the building called for being expressed architecturally in a manner that departed from campus legacy and norm. Consensus was built with the stakeholders around advancing a scheme that had a visually interesting massing expression, offered opportunities for unique outdoor spaces, and the sense of being "connected-yet-unique" within the campus visual vocabulary.

3. In seeking to "take the temperature" on campus, Moody Nolan conducted a series of town hall visioning meetings with students, faculty, and administration stakeholder groups. Ostensibly, these stakeholder discussions were forums in which to consider this project. At various points -and perhaps at heart-it becomes a conversation about the climate for minorities on campus and the role/perceived value of cultural diaspora-focused scholarship. Students of minority cultures articulated acts of overt and micro-aggression-or subtle but stressful messages that "who they are" is not okay. Faculty expressed frustration over the inadequate focus given to their respective fields of expertise and questioned the University's commitment to cultural/ethnic focused research and education. It was noted that n one building (or set of buildings) can alter the climate or cure all that ails the campus. Perhaps not, nut-conceivably, it could be one important step. IT could be a way for the University to say, "we care" After all, noted one stakeholder, these meetings happened as a result of a willingness on the part of the administration to hear and address concerns.

In fact, the discussions extended far beyond matters of brick and mortar. It was further noted that this was a "philosophical moment" they'd be remiss to ignore, and that this is an opportunity to challenge this University in a way that has not been done before.

4. As the nation's largest African American owned and managed design firm, we understand the importance of diversity and inclusion on high profile public projects. It is our core belief that minority, woman-owned or disadvantaged firms such as ours, provide a unique advantage for the client. Great design is a product of innovative and creative ideas generated by viewing complex problems from many different points of view. Bringing together diverse individuals and firms allows us to bring the best design ideas from a worldwide perspective to solve our clients' design needs. It facilitates a profound understanding of the cultural sensitivities of the end-users and the impact of the spaces we design for those groups. Moody Nolan is a certified Minority Business Enterprise (MBE) by numerous jurisdictions throughout the United States including the National Minority Supplier Development Council as well as the National Organization for Minority Architects. However, our diversity goes well beyond our African American ownership. We have recruited design professionals from many different backgrounds - India, Nigeria, Puerto Rico, South Korea and Tunisia are just a few of the many countries and cultures represented by our staff. Additionally, with females constituting nearly 40 percent of our staff, we are a rarity in the architecture field. Moody Nolan's goal on each of our projects is to not only meet, but to exceed a client's goal for diversity and inclusion. Recent examples of these efforts include:

City Colleges of Chicago Malcolm X College and School of Health Sciences – 82% MBE/DBE Achieved
University of Illinois at Chicago Mile Square Health Center – 62% MBE/DBE Achieved
Paul Laurence Dunbar Senior High School -Washington, D.C. – 48% MBE/DBE Achieved
Southeast Tennis and Learning Center - 80% MBE/DBE Achieved

Throughout our history our ability to meet and exceed diversity goals is achieved when we have sought to partner with like-minded diverse firms. This gathering of professionals will provide Michigan State University with the most innovative, contextual design outcome. We are very proud of our commitment to your community and will always seek to maximize MBE/WBE participation whenever possible, just as many firms did for us. We hope to have the opportunity to bring this same commitment to Michigan State University.

ABOUT THE FIRM

Recognized as a leader in mechanical/electrical/plumbing (MEP) engineering, Peter Basso Associates (PBA) is at the forefront of the application of new technology. Our engineers focus on building systems solutions that pay returns over the life of the facility, balancing performance with cost.

SERVICES

Engineering design services are provided during design, construction and operations and include: Mechanical Engineering, Electrical Engineering, Energy Management Services, Commissioning, Communication Technologies Design, and Architectural Lighting Design through Illuminart, our lighting division.

PROJECT PORTFOLIO

The firm is organized to serve four key market sectors: Commercial & Governmental Buildings, K-12 Schools, Higher Education and Healthcare/Laboratories, with MEP systems being designed for a broad range of facility types.

TECHNICAL CAPABILITIES

Engineering designs are produced using current versions of Autodesk AutoCAD MEP and Autodesk Revit MEP, as we lead the industry in our use of Building Information Modeling technology for mechanical and electrical design. New technology – whether it is hardware, software, or methodology -- is analyzed and integrated into our design process on an on-going basis.

A BRIEF HISTORY

When Peter Basso Associates was founded in 1990, a small staff provided only mechanical engineering services until electrical engineering services were added in 1991. In 2002, PBA became 100% employee-owned through an Employee Stock Ownership Plan. Being a company of owners means that everyone involved with a project literally has a vested interest in its successful outcome.

Today our staff of 113 provides comprehensive services. From the inception of the firm to today, the commitment to excellence in engineering and personal attention to clients has remained a core value of the firm.

FIRM INFORMATION

(Headquarters)
5145 Livernois, Suite 100
Troy, MI 48098
T (248) 879.5666
F (248) 879.0007

2001 Commonwealth, Suite 203
Ann Arbor, MI 48105
T (734) 913.4749
F (734) 913.4957

YEAR ESTABLISHED

1990

SERVICES

PBA provides MEP engineering services during design, construction and operations including:

- Mechanical Engineering
- Electrical Engineering
- Energy Management
- LEED® Design/Documentation
- Commissioning, Retro-Cx
- Communication Technologies
- Architectural Lighting Design by Illuminart, a division of PBA

COMPANY SIZE

113 Employees including:
64 Engineers (24 registered)
16 Designers
10 CAD Specialists
15 LEED Accredited Professionals
11 Administrative Support
6 Lighting Designers (4 Certified)
4 Certified Plumbing Designers
2 Certified Energy Managers
2 Certified Cx Professionals
1 Certified Construction Specifier
6 College Interns

DESIGN TEAM

Mechanical, Electrical, Plumbing

Joseph Seidl, P.E.
Lead Mechanical Engineer

Terrence Cleis, Jr. P.E., LEED AP
Lead Electrical Engineer



SAGINAW CHIPPEWA INDIAN TRIBE
Ziibwing Center of Anishinabe Culture & Lifeways
Mount Pleasant, MI

Opened in the spring of 2004, the 32,000 sq. ft. center is dedicated to the Anishinabe culture and lifeways and houses a permanent exhibit, temporary exhibit, research center, meeting and conference facilities, cafe, and gift shop. PBA provided mechanical, electrical and plumbing engineering services for the new facility for schematic design through construction administration. The center has a state-of-the-art research center, temporary exhibition space, and a 9,000-square-foot permanent exhibit. It houses Tribal artifacts, educational resources that are presented and preserved in "their" way.



JOSEPH SEIDL, P.E.
VICE PRESIDENT/ LEAD MECHANICAL ENGINEER

As Lead Mechanical Engineer, Joe is responsible for the planning and design of the mechanical systems for this project. During his more than 16 years of project experience, Joe has developed a strong technical background in complex mechanical systems including, chiller and boiler plants, research and teaching laboratories, vivarium, and recreation and aquatics buildings, with an emphasis on higher education facilities. Joe works in collaboration with architects, building owners and facilities personnel to provide engineering solutions that work with the building architecture, and to provide energy-efficient, reliable and easily maintainable mechanical systems to meet the owners' and building occupant's needs.

RELEVANT EXPERIENCE

Michigan State University North Neighborhood Housing Study
East Lansing, MI

Michigan State University Butterfield Hall Renovation
East Lansing, MI

Michigan State University Music Building Addition and Renovation
East Lansing, MI



FERRIS STATE UNIVERISTY
Univeristy Center Renovations
Big Rapids, MI

FSU was interested in significantly upgrading its existing student center into an iconic architectural showpiece that would serve as a recruitment tool for incoming students as well as a gathering space by providing comfortable places to meet, relax, study and socialize. PBA provided MEP engineering and lighting design services to upgrade existing systems with energy efficient systems that met the programmatic requirements and reduced operational and maintenance costs. Mechanical implementations included adding 4 new air handling units for the Student Lounge, Kitchen/ Dining areas, Event/ Meeting Rooms and Office Spaces / Bookstore. A new 450-ton water cooled chiller was also provided to generate chilled water. A direct digital control (DDC) system was additionally provided to monitor, control, and optimize the operation of the HVAC systems in the building. A fully automatic wet-pipe sprinkler system was also provided throughout the entire building.

The project achieved LEED Silver certification.



TERRENCE CLEIS, JR. P.E., LEED AP
PRINCIPAL/LEAD ELECTRICAL ENGINEER

Serving as Lead Electrical Engineer, Terry is responsible for the electrical systems engineering design and management of all phases of a project from initial design through construction administration. Terry's experience includes design of primary and secondary power distribution systems for high-, medium- and low-voltage systems; lighting design; fire alarm systems; security systems; telecommunication systems; emergency power systems; and hazardous area systems. He has also been involved in the development of short circuit analysis and coordination studies for institutional, commercial and industrial facilities. From his nearly 30 years of project work, Terry brings extensive experience in the areas of healthcare, corporate, higher education, manufacturing and automotive facility design.

RELEVANT EXPERIENCE

Ferris State University Office of Multicultural Student Services
Big Rapids, MI

Saginaw Valley State University Student Center Renovation
University Center, MI

Michigan State Univeristy School of Business Expansion Study
East Lansing, MI

ORGANIZATION

Desai/Nasr now IMEG – formerly Desai/Nasr Consulting Engineers, Inc. – and Jay Desai Consulting Engineers, Inc. – has been serving the Architectural industry since 1980.

Desai/Nasr now IMEG is one of the Detroit area’s largest structural engineering firms offering comprehensive structural engineering services including condition assessments, building code investigations, foundation systems, vibration analysis, special structural investigations, value engineering, structural analysis and design, failure investigations, equipment foundations, finite element analysis, shoring and bracing design, fabrication and erection studies, glass and glazing design, forensic engineering and expert witness testimony.

DESIGN PHILOSOPHY

Our service and design philosophy is to utilize leading edge technology to develop the optimal design solutions for each project. We strive to provide innovative and cost-effective solutions for exceptional designs. The principals of the firm stay involved in each project from inception to completion to assure product quality through leadership, technical expertise, consciousness for budget and schedule and coordination with other disciplines.

Desai/Nasr now IMEG applies Building Information Modeling (BIM) to optimize design, increase coordination between design disciplines, increase contractor understanding of design requirements and reduce costly field modifications due to unforeseen conflicts between design disciplines requirements.

OUR CLIENTS

Architects
 Consulting Mechanical, Electrical and Civil Engineers
 General and Specialty Contractors
 Construction Managers
 Developers
 Facilities Management Groups
 Design/Build Teams
 Insurance Companies

REGISTRATIONS

USA

Alabama, Arizona, Arkansas, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Texas, Utah, Virginia, Wisconsin

WORLDWIDE

Canada, Egypt, India

FIRM INFORMATION

6765 Daly Road,
 West Bloomfield, MI 48322

YEAR ESTABLISHED

1980

SERVICES

- Condition Assessments
- Building Code Investigations
- Structural Analysis & Design
- Special Structural Investigations
- Structural Vibration Analysis
- Equipment Foundations
- Finite Element Analysis
- Shoring & Bracing Design
- Failure Investigations
- Value Engineering
- Fabrication & Erection Studies
- Forensic Engineering
- Expert Witness Testimony
- Due Diligence Studies
- Peer Review
- Restoration & Repairs
- Glass & Glazing

COMPANY SIZE

25 personnel
 17 Structural Engineers (11 Registered Professional Engineers)
 5 AutoCAD / REVIT Drafters
 3 Administrative Professionals

DESIGN TEAM

Structural Engineer
 Athanacios Nasr, PhD, P.E., SECB
 Lead Mechanical Engineer
 Lisa Butzlaff P.E.
 Principal Structural Engineer



WAYNE STATE UNIVERISTY
Student Services Building
 Detroit, MI

The newly renovated Student Center at Wayne State University located in Detroit, Michigan provides students with a new center of campus, providing venues for student learning with state of the art facilities and services. The renovated 40-year-old Student Center includes student organization and leadership collaboration spaces; modern meeting, conference and banquet facilities; a new food court and additional dining locations; and new recreation and gaming areas. A new atrium on the south end of the building provides light and additional space and a new ball-room for large-scale university events. Increased square footage provides more locations for students to study and engage. Exterior work saves operational costs by improving efficiency and updates the building aesthetics. The project also included the expansion and renovation of the Student Veteran Resource Center which provides 3,000 SF of space to assist veteran students as they transition from military service to civilian life and higher education.



ATHANACIOS NASR, PhD, PE, SECB
MANAGING PRINCIPAL/PROJECT EXECUTIVE

Nasr is currently Managing Principal/Project Executive with Desai/Nasr now IMEG. Nasr’s work experience includes geotechnical engineering, structural hydraulic construction engineering, special foundation design, noise and vibration control. Project types extend from office buildings, school and hospital buildings, hotels and convention centers, shopping centers, housing and educational facilities, religious facilities, sports and recreation facilities, to industrial complexes such as auto and semi-conductors facilities, as well as major renovations and structural investigations and legal expert witness. Personal responsibilities for the structural engineering projects extend from schematic phases, preparation of construction documents to construction phases and field supervision.

RELEVANT EXPERIENCE
 Wayne State Univeristy Student Center Renovations
 Detroit, MI

Michigan State University Spartan Village
 East Lansing, MI

Jewish Community Center Berman Theater
 West Bloomfield, MI



FERRIS STATE UNIVERISTY
Univeristy Center Renovations
 Big Rapids, MI

The Building Program consists of design for new construction and major renovation of existing construction for an expanded three-story existing student center building. Significant demolition of the existing building is proposed, and includes full demolition of some existing building areas, demolition (and replacement) of roof only in select areas, demolition (and replacement) of floor in select areas. A new high roof, identified as “Street Roof” is proposed which will transverse both the areas of the new construction and a part of the existing building. Construction of this “Street Roof”, and part of the new roof (to replace the existing roof) along the north edge of the building will require interface with the existing floor in this area - which is proposed to remain.



LISA BUTZLAFF PE
PRINCIPAL STRUCTURAL ENGINEER

Lisa has been with Desai/Nasr now IMEG since December, 2012, as Structural Engineer. She was previously employed by Penhale & Yates, Inc. in South-field, as Structural Engineer. Lisa is responsible for the analysis and design of building structures, including building renovations as well as new structures. Additional responsibilities include review or analysis of structural elements or components for construction projects. Most of the design work done is with steel, concrete and masonry as the main building elements. Associated responsibilities include computer analysis and modeling, preparation of contract documents, coordination with other disciplines, review of shop drawings, and construction administration. Project types include mainly institutional, educational, office, retail and industrial.

RELEVANT EXPERIENCE
 Ferris State University University Center Renovation
 Big Rapids, MI

Michigan State Univeristy Spartan Village
 East Lansing, MI

Michigan State Univeristy Abrams Planetarium Addition
 East Lansing, MI

ABOUT STEVE KIRK

Stephen J. Kirk has a diversified background in facility economics, cost estimating & pro forma analysis, life cycle costing, value analysis, choosing by advantages (CBA), sustainability, quality assurance/quality control (QA/QC), executive training, architectural design, management of value & cost programs, project planning, and design & construction management. Dr. Kirk's experience includes university facilities & campuses, museums, fine and performing arts facilities, visitor centers, schools, housing, criminal justice facilities, hospitals, clinical labs, Native American projects, university facilities, parks, courthouses, offices, laboratories, retail, financial institutions, industrial, environmental and transportation facilities. Dr. Kirk has personally led over 400 Value Analysis studies for private industry and government agencies both nationally and internationally.

He is the author of eight books on Value Analysis/ life cycle costing/ facility economics:
 Life Cycle Costing for Facilities (R.S. Means 2003);
 Life Cycle Costing for Design Professionals (2nd Edition) (1995);
 Enhancing Value in Design Decisions (1993); Improved Design Decision Making Using Small Group Value Engineering Gaming/Simulation (1992); Creative Design Decisions, A Systematic Approach to Problem Solving in Architecture VNR (1988); Life Cycle Costing for Design Professionals, McGraw Hill (1981); Life Cycle Cost Data, McGraw Hill (1983); and Army Technical Manual 5 802 1 "Economic Studies for Military Construction: Design Applications" (1986). He has taught over 200 seminars and workshops on Value Analysis (including the SAVE certified module I & II courses) and written articles for Architectural Record, Architecture (AIA Magazine), and Specifying Engineer, among others.

Dr. Kirk has also taught value & cost management courses at Harvard University, Catholic University, University of Michigan, Lawrence Technology University, University of Detroit and King Saud University.

RELEVANT EXPERIENCE

- Education Building (Classes & Offices), Central Michigan University, Cost Estimating, Mt. Pleasant, MI
- Engineering Research Building, University of Cincinnati, Two VE Studies, Value Analysis, Cincinnati, Ohio
- Medical Sciences Complex, Addition & Renovation, University of Cincinnati, Facility Economics & Value Analysis/ LEED Studies, Cincinnati, Ohio
- The City + The Arch + The River 2015 Masterplan, Value Analysis / CBA / Life Cycle Costing Studies (3), Jefferson National Expansion Memorial, Missouri
- Engineering Research Building, University of Cincinnati, Two VE Studies, VE Team Leader/ Architect, Cincinnati, Ohio
- Aerospace Engineering Research Center, University of Michigan, Value Engineering Study, Ann Arbor, Michigan

FIRM INFORMATION

West Office
 3007 North 156th Drive
 Goodyear, AZ 85395

Midwest Office
 675 Spruce Hill Lane
 Ortonville, MI 48462

YEAR ESTABLISHED

1998

PRINCIPAL/OWNER

Stephen J. Kirk, PhD, FAIA, FSAVE, CVS, LEED AP

PROFILE

Harvard University, Harvard Design School, Instructor at Executive Education Seminars, 2007, 2006, 2005, 2004, 2003, 2002, 2001 - Ongoing

Harvard University, Executive Leadership Certificate Program, 2001

Doctor of Architecture (Facility Economics/ Gaming Simulation), University of Michigan, 1992

Master of Architecture (Bldg. Economics & Planning), University of Kansas, 1975

Bachelor of Architecture (with honors), University of Kansas, 1973

Architect MI, CA, 1/1/77

NCARB, 1/1/84

Certified Value Specialist (Life), 1/1/78

LEED® Accredited Professional, 3/2003

American Institute of Architects

Member, Industry Advisory Board, U.S. State Department 2006- present

Distinguished Service Award, 2006 Engineering Society of Detroit & SAVE International Greater Michigan Chapter of SAVE International

Gold Award, 2009, Engineering Society of Detroit

AIA Fellow Award, 1999 American Institute of Architects, Dallas Convention

Life Cycle Costing Certificate: ACEC/AIA, 1979.

Certified Value Specialist, 1978; Life, 1990.

Eagle Scout, BSA



**WAYNE STATE UNIVERSITY
 School of Business**
 Detroit, MI

The new School of Business is WSU's first newly constructed project outside of the university's Midtown campus. The new four-story building is roughly 120,000 square feet and includes:

- A finance and data analytics lab that features an LED stock ticker, interactive display wall and multiple Bloomberg terminals.
- An executive M.B.A. suite, a two-story atrium and space for a café and pop-up retail.
- A 260+ seat Lear Auditorium has state-of-the-art AV technology.
- Expanded tutoring, academic advising and career services spaces, including a full-service accounting lab and meeting rooms.



**WAYNE STATE UNIVERSITY
 Dormitory Complex**
 Detroit, MI

The Towers Residence Hall dining facility provides undergraduate students a café style setting for meals and studying. As part of the mixed use residence hall programming, the café resides on the first floor of the 936 bed Towers, offering dining and wireless internet access. Developed in association with Walbridge Aldinger, the project provided WSU complete design and documentation services for its new 305,457 GSF undergraduate residence and dining hall. Kirk Value Planners provided Cost Modeling services, a Value Based Design Workshop, and a Pro Forma Analysis for this project.



**WESTERN MICHIGAN UNIVERSITY
 Recreation Complex**
 Kalamazoo, MI

The Student Recreation Center at Western Michigan University houses University Recreation offices and programs. We offer open recreation, personal training, sport leagues and group exercise, utilizing equipment and facilities to promote health and well being. Programs focus on stress reduction, weight loss, increased flexibility and strength, friendly competition and social interaction. Kirk Value Planners provided two value based design Charrette Workshops for this project.



**WAYNE STATE UNIVERSITY
 Basketball and Hockey Complex**
 Detroit, MI

Wayne State University's Board of Governors approved today plans for the construction of a \$25 million arena for Wayne State's men's and women's basketball teams on the west side of its athletic complex. The approved plan includes construction of a 70,000 square-foot arena near the intersection of Warren and Trumbull avenues with seating capacity for approximately 3,000 fans, office space and locker room areas for both WSU's men's and women's basketball teams, a concessions area and other ancillary spaces. The arena will be ready for play in the 2021-2022 basketball season. Kirk Value Planners provided two value based design Charrette Workshops for this project.