

TICH2-JV, LLP

Detailed Modern Capabilities Statement

Architecture + MEP Engineering + Civil Design + Construction Administration
Energy Solutions + EV Infrastructure + Building Technology

Core Focus

Minority-owned engineering and infrastructure firm delivering sustainable engineering solutions, high-performance building systems, EV charging infrastructure, commissioning, renewable energy strategies, and modern infrastructure support.

Location	Established	Website	CAGE
Charlotte, NC	2020	tich2-jv.com	8U0J3

CAPABILITY OVERVIEW

Engineering, Infrastructure + Sustainable Building Systems

This updated version keeps the previous modern engineering layout while replacing the team content with the latest profiles provided. It is built for website embedding, capability reviews, procurement introductions, and partner conversations.

46+

Years technology systems leadership

40+

Years energy / facilities experience

30+

Years civil / project management

2020

Established in Charlotte, NC

Core Service Areas	
Engineering + Commissioning Design, testing, and verification of building systems for performance, reliability, and compliance.	Renewable Energy Solutions Energy strategies and renewable energy projects for commercial, industrial, and institutional clients.
Building Engineering Technology Smart-building assessments, telecommunications infrastructure design, RCDD services, and emerging technology integration.	EV Infrastructure Planning, engineering design, permitting, construction administration, and commissioning for EV charging projects.
Civil + Structural Design Roadways, civil sites, stormwater, utilities, aviation, inspections, and infrastructure project support.	Facilities + HVAC Systems Chiller systems, HVAC controls, automation, maintenance, energy compliance, and facility optimization.

COMPANY BIO

TICH2-JV, LLP

TICH2-JV, LLP - Company Bio TICH2-JV, LLP is a minority-owned engineering and infrastructure firm based in Charlotte, North Carolina. Established in 2020, the company delivers innovative engineering solutions focused on sustainability, energy efficiency, and modern infrastructure development. TICH2-JV specializes in the design, commissioning, and implementation of high-performance building systems and renewable energy initiatives that help clients improve operational efficiency and meet evolving energy demands.

Core Services

Engineering & Commissioning: Design, testing, and verification of building systems to ensure optimal performance, reliability, and compliance with industry standards. Renewable Energy Solutions: Development of energy strategies and renewable energy projects for commercial, industrial, and institutional clients seeking sustainable alternatives. Building Engineering Technology: Smart-building assessments, telecommunications infrastructure design (including RCDD services), and integration of emerging technologies such as drone applications.

Electric Vehicle Infrastructure: End-to-end support for EV charging projects, including planning, engineering design, permitting, construction administration, and commissioning.

Industry Presence

TICH2-JV has positioned itself as a forward-thinking leader in engineering and infrastructure by emphasizing sustainable development and innovative technologies. Through strategic collaborations and mentor-protégé relationships with established organizations such as Edison Energy, the firm contributes to advancing cleaner transportation solutions and resilient energy infrastructure.

Company Information

Updated Team Capability Profiles

The index below reflects the updated team content provided for the capabilities statement.

01	Johnny C. Mason, PMP, RCDD President/CEO - Building Automation, Technology Systems, Engineering Support, Systems Integration, Technology Business Development, and Project Management
02	Dwayne C. Gill, P.E., LEED AP Lead Senior Electrical Engineer and Engineer of Record / Manager
03	Gary J. Blanchard, RA, RID, NCARB, NCIDQ Principal Architect
04	Joshua Shope Architect
05	Cleveland C. Beaufort, CEM, CEA Energy Engineering and Sustainability Consultant
06	Michael E. Dudley, PE, CEM, LEED AP, BCxP Contractor / Project Manager - Mechanical CxA
07	Lamar Davis, MPA Regional Director, Project Development
08	Gary Becton Director of Facilities HVAC-Chiller Systems
09	Harley Griffin Principal-In-Charge / Lead Civil Consultant
10	Hamendra "Dino" Patel, PE VP Civil Engineering & Construction

PROFILE 01

Johnny C. Mason, PMP, RCDD

President/CEO - Building Automation, Technology Systems, Engineering Support, Systems Integration, Technology Business Development, and Project Management

PMP RCDD Mechanical

Johnny C. Mason- President-CEO, PMP, RCDD

Education

South Carolina State University - Orangeburg SC; Business Administration 1975; Piedmont Technical College Charlotte NC-Industrial Engineering Technology 1977; UNCC - Charlotte NC 1979; Minor, Computer Information Systems 2000 Forty-Two years of Building Automation-Technology Systems and Engineering Support, Integration, and Technology Business Development and Project Manager for Government and Commercial Sectors in addition to:

- 9 years as a Technical Systems Field Tech Engineering Svs supervisor for IBM-Charlotte NC
- 32 years as a Certified Channel Partner & CCNA Specialist with Cisco Networks
- 25 years as a Certified Channel Partner for Cisco, Motorola, Nortel, and Ruckus
- Reseller Partner with Nortel Networks (Avaya) Government Solutions
- Partner-Subcontractor-Installation-Configuration partner Johnson Controls

Honors:

- Honored as the Midland Minority Supplier Businessman of the year in 1985
- Honored as the South Carolina Small Business of the Year in 1993
- Minority SDB Business of the year 1993
- Honored as the Businessman of the Year 1999 by Richland Co. School District One

Experience Synopsis

- 46 years of professional experience and seven years of project engineering experience
- 46 years of experience in systems integration, technology (systems, mechanical, electronic, and aerospace) engineering support, and project corporate management

Lead Senior Electric Engineer and Engineer of Record/Manager

PROFILE 02

Dwayne C. Gill, P.E., LEED AP

Lead Senior Electrical Engineer and Engineer of Record / Manager

LEED EVCS Electrical Construction

TICH2-JV, LLP Co-Owner Managers / Senior Electrical Project Engineer of Record of EDUCATION

Education and Professional Certifications

N.C. A&T State University B.S., Architectural Engineering

YEARS OF EXPERIENCE

TICH2-JV, LLP, 2 years-Prior, 15 years

CERTIFICATIONS AND REGISTRATIONS

Professional Engineer (P.E.) - NC (056346), GA (PE040006), SC (41861) LEED AP Mr. Gill is a senior electrical engineer with more than 15 years of experience in electrical design and construction administration support. He has experience in the mission critical, and industrial/manufacturing sectors among others. Mr. Gill has created specifications, prepared reports and cost estimates, and developed plan drawings and schedules. He also performed electrical power distribution system studies such as short circuits, protective device coordination and arc flash hazard analyses, and performed site surveys for data collection and condition assessments.

PROFESSIONAL SUMMARY

Mr. Gill is a senior electrical engineer with more than 15 years of experience in electrical design and construction. In addition to electrical design, he has been involved in facility assessments and power distribution system studies such as arc flash hazard analysis, protection coordination studies and short circuit evaluations. Mr. Gill has experience in the industrial, commercial, federal, state, military, and municipal sectors. He has also been involved in the construction administration process for multiple projects. Mr. Gill has experience designing electrical systems which include medium- and low-voltage power distribution, lighting, grounding, lightning protection, vertical transportation, security, fire detection and alarm systems. Mr. Gill has created specifications, BOD narratives, drawings, schedules, and ROM cost estimates. He has performed calculations which include, but are not limited to, load calculation, short circuit, equipment and circuit sizing, voltage drop and photometrics for interior and exterior lighting applications.

RELEVANT PROJECT EXPERIENCE

- City of Charlotte EVCS Project (Multiple Sites)
- City of Asheville EVCS Project (Multiple Sites)

PROFILE 03

Gary J. Blanchard, RA, RID, NCARB, NCIDQ

Principal Architect

Architecture Construction Revit AutoCAD

Principal Career Summary: Mr. Blanchard is a licensed architect with 29 years of construction documentation, program management, project management, design and planning experience involving numerous market sectors including aviation (landside and airside operations), heavy industrial (EPC & EPCM projects), commercial, retail, residential, educational, entertainment/ leisure, municipal, mission critical, federal, and water infrastructure facilities. Experienced in project management, quality control, financial metrics, construction documentation, construction administration, project coordination, code and permitting reviews.

He is accomplished in Autodesk BIM 360, Revit 2023, AutoCAD 2023, Adobe Applications, Lumion 10.3, proficient in Microsoft Project, and Microsoft Office Applications.

Client Reference Contact: Elisa Johnson, 757-627-9088

Experience in Industry: 29 Years (1997)

ADSU: 19 Years (2007)

Education

BA, Architecture, University of Louisiana - Lafayette, 1997

Professional Registrations

Registered Architect in GA, (RA 013192), Registered Architect in TX (22574), Registered Architect in LA, (8144), Registered Architect in AL, (7492) Registered Architect in KY, (7394), Registered Architect in TN, (105186) Registered Architect in SC (#9214), Registered Architect in FL, (#AR100798) Registered Architect in NY, (044732), Registered Architect in CO, (ARC.00407754) Registered Interior Designer in GA (ID001096), NCARB Registered Architect (#72026) NCIDQ Registered Interior Designer (416760),

Professional Memberships: American Institute of Architects (AIA), National Council of Architectural Registration Boards (NCARB), Airport Minority Advisory Council (AMAC) - Professional Development Committee Chair 2016

Joshua Shope

Architect

Architecture Revit AutoCAD

Joshua Shope-Architect

Education

M.Arch. University of North Carolina-Charlotte. Charlotte, NC December 2010 Master of Architecture. B.S. Trevecca Nazarene University. Nashville, TN May 2005 Mass Communication major. English minor.

Professional Experience

TICH2-JV, Principal Architect Consultant, Black Maria Design, Charlotte, NC, August 2023-Current Founded and focused on residential and small commercial projects. Developed business relationships with developers, builders, and consultants. Worked in Revit as sole designer for every project in locations ranging from Seattle, WA to the Charlotte area.

Skills

Autodesk Revit, AutoCAD, Google SketchUp; Adobe Photoshop, Adobe InDesign, Microsoft Office

License# NC 17456

Cleveland C. Beaufort, CEM, CEA

Energy Engineering and Sustainability Consultant

CEM CEA HVAC Mechanical Electrical Solar Commissioning Construction Energy

Cleveland Beaufort

EDUCATION

Furman University Postgraduate Diploma in Corporate Sustainability Clemson University Master of Business Administration South Carolina State University B.S. Mechanical Engineering Professional Membership & Licenses Association of Energy Engineers (AEE) Certified Energy Manager (CEM) Certified Energy Auditor (CEA) Mr. Beaufort is the VP of Facilities Engineering, a management consultant that provides Energy Engineering & Sustainability, Facilities Optimization and Project Management. He is a Chartered Legend in Energy Member with the Association of Energy Engineers (AEE). He worked in corporate America for 40 years and gained valuable professional experience while at BMW Manufacturing Co., LLC (26 years) Cryovac Division of W.R. Grace (13 years). This experience was gained in systems engineering, HVAC design & operation, energy engineering & sustainability, facilities systems optimization, utilities contracting, project management, FM quality engineering, risk mitigation and management of a highly skilled technical workforce. His professional experience resulted in the accomplishment of several significant energy and sustainability programs which included the following:

- Development & Implementation of a Landfill-Gas-to-Energy System
- Development & Installation of a 1.2 MW Solar PV System
- Implementation of a Hydrogen Fuel Cell System Infrastructure
- LED Lighting Systems Upgrades * Installation of Waste-to-Energy Incineration System
- Electric Vehicle Charging Systems Design, Construction Mgmt., Deployment, Commissioning
- Energy Audits and Feasibility Studies
- Hydronic Systems Upgrade
- TPM Reliability Projects
- Electrical System Power Quality Improvements
- Steam & Condensate Systems Improvements

PROFILE 06

Michael E. Dudley, PE, CEM, LEED AP, BCxP

Contractor / Project Manager - Mechanical CxA

PE LEED CEM BCxP HVAC Mechanical Commissioning Construction Energy

Michael E. Dudley, PE, CEM, LEED AP, BCxP, GA State

Professional Qualifications

Michael is a registered professional engineer in multiple states with a strong background in HVAC design and construction. He has designed, commissioned and performed facility condition assessments for HVAC and other building systems for a variety of facility types including central plants, office buildings, laboratories, power plants and upscale hotels. These include federal, state and local government facilities. Michael has over 30 years of engineering experience and a Diverse background to Michael Dudley is having spent time on-site working with clients and general contractors to troubleshoot design and construction issues and supervising field engineers. Michael is also a Licensed Unrestricted Conditioned Air Contractor for the State of Georgia.

Michael serves as the Director of Engineering and Project Manager overseeing a team of design, commissioning and facility condition assessment professionals. As an HVAC mechanical engineer, LEED consultant, and certified commissioning professional, Michael provides consulting engineering design services and building energy audit surveys as required by USGBC for LEED projects.

Selected Professional Experience

Univ. of Tennessee - Joint Institute of Advanced Materials and

Sciences Building (LEED Silver): Michael served as the commissioning project manager and mechanical CxA on this \$56 Million dollars, 148,000 sf state-of-the-art laboratories and office space. The Cx efforts included laboratory HVAC, the CUP and more. Dothan City Schools (DCS): Michael served as Cx project manager and mechanical CxA for this more than 300,000 sf HVAC and Controls upgrade project for multiple DCS. Cx services included multiple BAS's, multiple Dedicated Outside Air Energy Recovery Units, Water-cooled Chillers & Gas-fired Boilers in the central energy plant, FCU's and more.

Athens Technical College Agricultural / Academic Buildings

Michael served as the project manager and mechanical CxA for these two 30,000 sf, newly constructed facilities. Services included commissioning of the MEP systems and Building Enclosure Commissioning.

Education

Bachelor of Science, Mechanical Engineering, Georgia Institute of Tech. associate's in mathematics, Georgia Piedmont College (formerly DeKalb College)

Registrations

Professional Engineer: Georgia, Ohio, Alabama, North Carolina, South Carolina State of Georgia Class II, Unrestricted Conditioned Air, Contractor License Holder, Certified Energy Manager,

Lamar Davis, MPA

Regional Director, Project Development

Civil Mechanical Construction

Lamar Davis- Regional Director, Project Development

EDUCATION

STRAYER UNIVERSITY, Charlotte, NC Master of Science in Public Administration SOUTH CAROLINA STATE UNIVERSITY, Orangeburg, SC Bachelor of Science degree in Civil Engineering Minor: Mechanical Engineering

PROFESSIONAL EXPERIENCE

Lamar is involved in the Business and Project Development for the Carolinas and is located in the Charlotte, NC Office. He is involved in the day-to-day operations of the Civil Group, working along with Civil Design Engineers to ensure the delivery of high-quality and accurate projects to all clients. Lamar has experience in Program, Project, Construction Management, and Inspection and has worked in the Civil Engineering Field for over 30 years. He was the QC/QA plan, construction and engineering contract, and construction and engineering estimates reviewer for the City of Charlotte. He has extensive experience in vertical and horizontal construction and has managed road, sidewalk, bridge, neighborhood, streetscape, State and Federal and public space projects. Lamar's project management experience spans all phases, including concept development, planning, design, real estate acquisition, bidding, utility relocation, construction, and warranty phases. He is proficient in cost estimating, contract negotiation, contract implementation and public engagement.

TICH2-JV, LLP-Davis Development and Project Engineering Management

Regional Project Development and Engineering Management- (7-25 - Present) Project Development and Management of all Civil-Structure Engineering Project concept development, planning, design, real estate acquisition, bidding, utility relocation, construction, and warranty phases. Provide cost estimating, contract negotiation, contract implementation and public engagement.

Gary Becton

Director of Facilities HVAC-Chiller Systems

HVAC Electrical Construction Energy

Gary Becton-TICH2-JV, LLP Director of Facilities HVAC-Chiller Systems

EDUCATION AND TRAINING

Energy Management Diploma, North Carolina State University, 2004 Courses: Energy Savings in Advanced HVAC-Chiller Systems, HVAC Durham Tech, Community College Durham, NC Refrigeration & Air Conditioning Installation and Maintenance Certification North Carolina State Board of Community Colleges USMC Fort Lee Military School - Facility Maintenance Diploma, Richmond, Va

CERTIFICATIONS

- HVAC Journeyman * Universal CFC Electronics I - 6
- American Auto * Pneumatic Controls * Hydraulics and Fluid Power
- Management / Svs * Quality Assurance * Project Management
- HVAC/ Refrigeration * HVAC Technician * Training

RELEVANT PROFESSIONAL EXPERIENCE

- Coordinated activities with subcontracts and provided quality assurance for projects
- Troubleshoot component level issues on the following: HVAC automation and controls, variable air volume boxes, dampers, controllers, printed circuit boards, and relays
- Familiar with all electrical HVAC and electrical test equipment and meters
- Maintained and serviced 25,000-ton chillers/air-cooled equipment to maintain a comfortable work environment
- Ability to rebuild, repair chill water pumps, replace motors, pm cooling towers, shaft on the cooling tower
- Perform chemical treatment tests, replace bearing, pulleys, belts and monitored chiller temperatures pressures
- Upgraded EPA HVAC-Chiller Equipment on North Carolina State Agency sites to energy efficient equipment for Energy Management State Compliance
- Manage Capital Project in the installation of HVAC-Chillers, automation controls, and equipment
- Responsible for the efficient and safe operation, maintenance, construction and repair of the HVAC system
- Served as key liaison between high level executive tenants and building real estate management contracts to ensure client satisfaction
- Attended project management meetings with architects and building engineers to manage capital expenditure
- Trained technicians and mechanics on preventive maintenance, by changing filter, lubing motors and bearings, change belts in air handlers troubleshoot, repair automation controls and all HVAC equipment on site

EMPLOYMENT HISTORY

- TICH2-JV, LLP, Charlotte NC-Dir. of Facilities-Building Energy Systems Eng -Present
- John Group International, Atlanta Georgia Director of Facilities 12/11-12/13
- PGI Inc. Benson NC: HVAC Technician 7/11- 12/11
- Thermo Direct Inc. Garner, NC: HVAC Service Specialist, 6/10-07/11
- North Carolina Central University, Durham, NC: HVAC Manager, 02/06 - 06/

PROFILE 09

Harley Griffin

Principal-In-Charge / Lead Civil Consultant

PE EVCS Civil Electrical Construction Energy

Principal-In-Charge-Lead Civil Consultant-Harley Griffin Harley has over 25 years of experience providing engineering design with construction management and administration services for a variety of clients. His portfolio of projects includes design for roadways, EVCS, civil site, inspections, utilities, survey, and new construction with expansions of existing facilities based on his knowledge across various projects and facility types. He has provided simple and yet strategically holistic approaches to complex projects of varying types while managing budgets, consultants and project schedules.

Relevant Experience

City of Asheville, Electric Vehicle Charging Station, Lead Civil Engineer - Asheville, GA | Completed 2022 Prepared construction plans for four (4) design sites for the City's new electric vehicle charging stations to accommodate the City's implementation of charging stations for their new fleet of electric vehicles for employee use. The city will be upgrading to a new fleet of electric vehicles to move the City forward in being energy conscious and compliant with Federal initiatives towards clean energy.

Project Reference: Nicole George, PM City of Asheville, 828-747-1976., ngeorge@ashevillenc.gov

Project Role: Lead Engineer

City of Atlanta, Hartsfield-Jackson Atlanta International Airport, Stormwater Utility Master Plan, Project Manager/Lead Civil Engineer - Atlanta, GA | Completed 2005 Performed hydrological analysis for the proposed Fifth Runway Project located at I-285. Managed project personnel, schedules and developed cost estimates for proposed drainage improvements based in the hydrological report. Coordinated with DOA Staff for their review/questions concerning report findings in the Utility Master Plan for the entire SIDA area. Utilized Federal Aviation Administration and the City of Atlanta guidelines for hydrological analysis. Participated in various team coordination meetings during the development of the report in preparation for the final submittal package. Performed research of "As-Built" drawings while utilizing GIS Mapping and existing drawing files to determine actual utility locations for existing storm water management systems, water and sewer lines, electrical and gas lines of the Central Passenger Terminal Complex (CPT) area that encompassed the North and South Parking Decks and the employee parking area; located west of the CPTC that involved also the Fifth Runway Project, future roadways and parking deck projects.

Project Reference: Bob Mahfood, PE, Project Manager (Ret.), 404-382-1326., bob.mahfood@atlanta-airport.com

Project Role: Lead Engineer

Education

Bachelor of Science, Civil Engineering, South Carolina State University, Orangeburg, SC

Registration/Licenses-OSHA Certificate No.: 0000026919

Affiliations-ASCE-American Society of Highway Engineers (ASHE)

PROFILE 10

Hamendra "Dino" Patel, PE

VP Civil Engineering & Construction

PE Civil Construction Energy

Hamendra has over 25 years of experience providing engineering design and construction administration services for a variety of clients. His extensive portfolio of projects includes design for roadways, civil sites, electric vehicle charging stations, stormwater management, aviation and new construction transportation projects. He has performed design and construction expansions for existing facilities based on his extensive knowledge across various project and facility types. Hamendra has provided simple and yet strategically holistic approaches to complex projects, while managing multiple projects simultaneously of varying types and scale while managing budgets and project schedules.

Relevant Experience

City of Asheville, Department of Public Works Department, Project Manager - Asheville, NC | Completed 2022 Prepared four (4) design sites for the City's new electric vehicle charging stations to accommodate the City's implementation of charging stations for their new fleet of electric vehicles for employee use. The City will be upgrading to a new fleet of electric vehicles to move the City forward in being energy conscious and compliant with Federal initiatives towards clean energy.

Project Reference: Nicole George, PM City of Asheville, 828-747-1976., ngeorge@ashevillenc.gov

Project Role: Project Manager-Civil engineering

City of Atlanta, Hartsfield-Jackson Atlanta International Airport, South Airfield Taxiway System, Project Manager - Atlanta, GA | Completed 2009 Prepared three alternatives for evaluation by DOA Staff. This task order consisted of a Planning Definition Report (PDR) to define the development of the taxiway system for approximately 43 gates based on the recommendations of the FAA Working Group to support the South Gate Complex development. The taxiway layout, along with the associated taxi lanes, was dependent on the chosen most preferable concourse layout. Upon completion of the South Gate Complex Planning Guidelines analysis, a preferable concept was chosen and was used to layout the taxiway and taxi lane system. The grading and drainage for the 500 Acres site was developed for the taxiways in and around the 43 gates and was adjusted to accommodate the chosen concourse concept and to help with the building layout and the apron pavement drainage due to the grade difference that existed between the existing runways 9L/27R and 10-/28 (Fifth Runway). A De-Icing facility was located on the complex, and it was included in grading. It was, also necessary to coordinate the alignment, grading and drainage planning activities of this project with the planning activities of taxiways "W", "SW" and "SA". Project Reference: Bob Mahfood, PE (Ret.), Project Manager, 404-382-1326., bob.mahfood@atlanta-airport.com

Project Role: Project Manager

Education-Bachelor of Science, Structural Engineering, Univ College Cardiff, Wales, U.K.

Registration/Licenses-Professional Engineer, Georgia No. 19109

GSWCC Level II Certificate No.: 0000026919

Mr. Lamar Davis Input to TICH2-JV, Website Restructure

Company Information

Prepared from the updated TICH2-JV, LLP team capability content provided for the website and capabilities statement.

Company	TICH2-JV, LLP
Location	Charlotte, North Carolina
Established	2020
Website	tich2-jv.com
Core Focus	Engineering, commissioning, renewable energy, building engineering technology, EV infrastructure, civil design, and facilities optimization.