

Umar T. Ahmad, P.E.

Chairman CEO

Project Manager / Project Coordinator

University of Nevada-Reno, Ph. D. Candidate
University of Nevada-Reno, MSCE, 1992

University of Punjab-Lahore, Pakistan, MS, Applied Geology, 1986

University of Punjab-Lahore, Pakistan, BS, Applied Geology, 1985

Certifications

IDOT Documentation of Contract Quantities – 2023
IDOT Fundamentals of Storm Water Pollution and Erosion and Sediment Control-2014
IDOT Hot Mix Asphalt – Level I, Level II, Level III – 2008
IDOT PCC - Level I, Level II, Level III - 2008
IDOT S 33 Geotechnical Field Testing and Inspection Certification
IDOT – Mixture Aggregate - 2008
IDOT Bituminous Concrete Density Tester (QA/QC Density Tester)– 2008
IMIR's & ICORS Training
ACI Concrete Inspection & Testing Level I – 2022
ACI Concrete Strength Testing Technician – 2023
ACI Concrete Laboratory/Aggregate Testing Technician – 2023
Nuclear Density Gauge Safety – 2020
Certified Radiation Officer – 2008
Visual Weld Inspection Training – ASNT Level II
Ultrasonic Weld Inspection Training – ASNT Level II
Magnetic Particle Inspection Training – ASNT Level II
Penetrant Testing Training – ASNT Level II
Precast/Pre-stressed PCI Level I, Level II, & Level III – 2021
Certified Floor Profiler Using F.A.C.E. Equipment – Floor Flatness/Levelness

Missouri QC/QA Training: Bituminous Technician, Concrete Field, Concrete Strength, Superpave QA/QC

Professional Licenses

Licensed Professional Engineer:
Illinois # 062-055148
Wisconsin # 34833-6
Indiana # 10200276
Michigan # 6201048936
Missouri # 2011007467
Nevada #14560

Professional Societies

Illinois Society of Professional Engineers (ISPE),
Chicago Chapter – Past Vice President/Secretary
American Society of Civil Engineers (ASCE),
Geotechnical Group, Chicago Chapter – Past Chair
National Society of Professional Engineers (NSPE),
Member
American Council of Engineering Companies of
Illinois (ACEC) Member

Experience

2010 to Present (NASHnal Soil Testing, LLC – Chairman, CEO)

Exceptional, visionary leader with over twenty four years of technical, business, and leadership experience in public and private sectors with the ability to formulate, execute, and adjust the business strategy as needed. Served as a QA/QC manager on various Tollway and IDOT projects. Responsibilities included but not limited to staff management (QA staff, staff from RAS testing and mixture control units), Evaluation and reporting of pay items for end result projects. Additionally Evaluated mix designs submittals and provided needed recommendations. Provided sampling and testing for Aggregate, HMA and PCC per DOT and Federal guidelines.

2006 to 2010 (GSG Material Testing, Inc. - Vice President / Junior Partner)

Sole responsible of daily operations of the business. Supervised all office staff including licensed professional engineers, junior engineers, secretaries, laboratory staff and field technicians. Interview potential employees for recruiting and team building. Client interface and technical consultation. Started a New Material Testing laboratory, purchased all equipment, calibrated and installed, trained technician and received AMRL, CCRL along with IDOT HMA, Concrete and Soils certifications. Responsible for reviewing all QA/QC reports.

2003 to 2006 (H. H. Holmes Testing Laboratories, Inc. - Marketing & Field Engineering Director)

Marketing Director - Responsible for strategic business initiative and execution of the business plan to achieve growth, profitability and business integration within Chicagoland and neighboring states. Some of the current responsibilities are: Increasing market visibility; Obtaining new business and maintaining client relations; Negotiation and administration of contracts; **Field Engineering Director** - Supervise and manage material testing laboratory and multiple construction projects. Responsible for reviewing technical reporting (i.e. daily field investigation work), client consultation related to field problems, trouble shooting, quality assurance and quality control (QA/QC) during construction of public works and private projects. Review and prepare geotechnical exploration reports. Personally responsible for budget preparation of all the material testing projects and monitoring the budget as the project progresses. Oversee all the field engineers' work, especially during field testing and. Pre-Stressed/Pre-Cast plant inspection

2001 to 2003 (GME Consultants of Illinois, Inc. - Principal Engineer)

Consulting Engineer - Responsible for reviewing and updating the results of Sub surface exploration, Geotechnical data investigation and engineering studies for various design sections, report preparation and recommendations for design and construction. Pavement design, in accordance with IDOT, WisDOT and INDOT standards.

Supervise & Manage - Material testing laboratory and multiple construction projects. Responsible for reviewing daily field investigation reports, problem solving, quality assurance and quality control (QA/QC) during construction of public and private projects. Perform review of field engineer's work. Supervise group of field technicians, senior technicians and mentoring the young engineers.



NASHnal Soil Testing, LLC

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Experience Continued

1992 to 2001 (Pezonella Associates, Inc. - Senior Geotechnical Engineer)

Started as junior engineer after college, promoted to project engineer, project manager and attained the highest rank as senior engineer at Pezonella Associates, Inc. Evaluation of bituminous and concrete material test results and cores to recommend mitigation as outlined by public works officials and other agencies for QA/QC. Enforcing adherence and verification of conformance to specification for general and public work's construction, which include site visit for contractors work evaluation and recommendations in case of discrepancy and problems in the field.

Specific Project Experience

Village of Geneva: Supervised Geotechnical Exploration and pavement coring in the field and Laboratory Testing for Soils/Pavement investigation and CCDD screening for pavement replacement.

Village of Lisle: Supervised Geotechnical Exploration and pavement coring in the field and Laboratory Testing for Soils/Pavement investigation for Water Main and Pavement replacement.

Dubuque-Underground Pipeline Replacement for Nicor Gas-Phase IV, V & VI-Various locations in JoDaviess/Stephenson County, IL: Supervised Geotechnical Exploration in the field for replacement of approximately 163,680 linear feet (31 miles) of twenty-two inch (22") steel transmission pipeline. The Project was split into three phases (Phase IV-Phase VI), performed geotechnical exploration borings to various depths between 15 feet to 250 feet, and describe the soil, rock core, and groundwater conditions encountered during geotechnical exploration. Reviewed and evaluated these conditions with respect to the proposed project, and presented our recommendations to help plan the pipeline design.

Supervised Laboratory Testing and procedures. Reviewed Boring Logs, field, and lab data along with the Report prepared by junior engineers and presented our recommendations.

Village of Streamwood, Streamwood, IL – Supervised Geotechnical Exploration in the field for various structures and roadway projects, supervised the Laboratory Testing and procedures. Some of the planned structures were a Lift Station, a Public Works Office Building, a Public Works Garage, and Fire Stations at various locations in the Village of Streamwood. Reviewed Boring Logs, field, and lab data along with the Report prepared by junior engineers and presented our recommendations for feasible methods of foundation support, earthwork design, and construction. Finalized, approved, and signed the geotechnical exploration Report for various projects to confirm our recommendations and our report meets Villages and IDOT standards.

Box Culvert Bicentennial Park, Belleville, IL – Supervised Geotechnical Exploration in the field and Laboratory Testing for a proposed storm box culvert which is located within Bicentennial Park on an approximate 10 to 12 feet wide watercourse and stream bed, running through the park. The City of Belleville was planning to construct two 9' (span) x 7' (rise), reinforced concrete culverts to be precast with CIP headwalls with an approximate length of 80 feet on a stream within Bicentennial Park in Belleville, Illinois. Reviewed Boring Logs, field, and lab data along with the Report prepared by junior engineers. Reviewed Boring Logs, field and lab data along with the Report prepared by junior engineers and presented our recommendations for feasible methods of foundation support, earthwork design, and construction.

Finalized, approved, and signed the geotechnical exploration Report for various projects to confirm our recommendations and our report meets Villages and IDOT standards. We recommended installing piles including H-piles, or metal shell piles driven to bedrock or refusal. These are known as end-bearing piles due to the fact that skin friction along these piles is negligible and is not considered while calculating the bearing capacity of these piles.

Box Culvert – 20th street extension, Belleville, IL – Supervised Geotechnical Exploration in the field and Laboratory Testing for a proposed storm box culvert which is located at 20th street extension over a watercourse and stream bed, running below the 20th street. The City of Belleville was planning to construct two 9' (span) x 7' (rise), reinforced concrete culverts to be precast with CIP headwalls with an approximate length of 70 feet on a stream within Bicentennial Park in Belleville, Illinois. Reviewed Boring Logs, field and lab data along with the report prepared by junior engineers. Reviewed Boring Logs, field, and lab data along with the Report prepared by junior engineers and presented our recommendations for feasible methods of foundation support, earthwork design and construction. Finalized, approved, and signed the geotechnical exploration Report for various projects to confirm our recommendations and our report meets Village and IDOT standards.

Ogle County Housing Authority Parking Lot, Ogle County, IL– Supervised Geotechnical Exploration and Laboratory Testing of various parking lots and Drives for Ogle County, IL. Reviewed Boring Logs, field, and lab data along with the Report prepared by junior engineers. Finalized, approved, and signed the geotechnical exploration Report and presented our recommendations for feasible methods of foundation support, earthwork design, and construction to confirm our recommendation and our report meets Village's and IDOT standards.

Bulger Park Facility, Tennis Court and Parking Lot, Village of Melrose Park, IL– Supervised Geotechnical Exploration and Laboratory Testing of Tennis courts and parking lots and Drives for Village of Melrose Park, IL. Reviewed Boring Logs, field and lab data along with the Report prepared by junior engineers. Finalized, approved and signed the geotechnical exploration report and presented our recommendations for feasible methods of foundation support, earthwork design and construction to confirm our recommendation and our report meets Village's and IDOT standards.



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Experience Continued

Northtown Storage Building, Chicago, IL – Supervised Geotechnical Exploration and Laboratory Testing of a five story Storage building. Reviewed Boring Logs, field and lab data along with the Report prepared by junior engineers. Finalized, approved and signed the geotechnical exploration Report.

Tinley Park Commercial Development, – Supervised Geotechnical Exploration and Laboratory Testing of a 200 acres park commercial development with drives, parking lots and retaining walls. Reviewed Boring Logs, field and lab data along with the Report prepared by junior engineers. Finalized, approved and signed the geotechnical exploration Report.

Grand Warehouse Expansion, Northlake, IL – Supervised Geotechnical Exploration and Laboratory Testing. Reviewed Boring Logs, field and lab data along with the Report prepared by junior engineers. Finalized, approved and signed the geotechnical exploration Report.

Forsyth Warehouse, Elk Grove Village, – Supervised Geotechnical Exploration and Laboratory Testing of a million square feet warehouse building. Reviewed Boring Logs, field and lab data along with the Report prepared by junior engineers. Finalized, approved and signed the geotechnical exploration Report.

Butterfield Road Buildings 4 & 5, Parks and Basin, Aurora, IL– Supervised Geotechnical Exploration and Laboratory Testing of two warehouse buildings. Reviewed Boring Logs, field and lab data along with the Report prepared by junior engineers. Finalized, approved and signed the geotechnical exploration Report.

Lockport Dam Rehabilitation- Senior Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data for regular and RCC concrete.

Abraham Lincoln Columbarium- Senior Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data for soils, mortar & grout and concrete.

M5-Tollway Facility (QA)-2021 to Current- Senior Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data for concrete, prior to submitting to Tollway. Evaluated mix designs submittals and provided needed recommendations. Provided sampling and testing for Aggregate, HMA and PCC per DOT and Federal guidelines.

Tri-State Tollway (I-294) Bridge Reconstruction, Mile Long Bridge Mile Post 21.5 (QA)-2019 to Current- Senior Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data for concrete, prior to submitting to Tollway. Managed QA staff, staff from RAS testing and mixture control units.

M16-Tollway Facility (QA)-2020 to Current- Senior Project Manager. Supervised Material testing technicians and laboratory staff, and reviewed all field and lab data for concrete, prior to submitting to Tollway.

IDOT PTB 194-2-Palatine Rd. at Des Plaines River-Frontage Rd. Bridge Construction- ILU4 (941)-C-91-096-08 (60D77)-2020- Senior Project Manager. Supervised material testing technicians.

Village of Geneva 2018-2020 Geotechnical & Various Street Improvements -Senior Project Manager. Supervised material Testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to Tollway.

I-355 Widening - Project Manager. Supervised material testing technicians and laboratory staff, and reviewed all field and lab data prior to submitting to Tollway.

Employment History

<u>Time Period</u>	<u>Company Name</u>	<u>Title/Position</u>
2010 to Present	NASHnal Soil Testing, LLC.	Chairman -CEO
2006 to 2010	GSG Material Testing, Inc.	Vice President / Junior Partner
2003 to 2006	H. H. Holmes Testing Laboratories, Inc.	Marketing & Field Engineering Director
2001 to 2003	GME Consultants of Illinois, Inc.	Principal Engineer
1992 to 2001	Pezonella Associates, Inc.	Senior Geotechnical Engineer



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