

# Siahr Siddiqi

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## **PROFESSIONAL WORK EXPERIENCE**

### **The Middlesex Corporation**

August 2016-Current

- **Project Quality Control Manager for the following Project**
  - Construction of Albany-Schenectady Double Track & Rensselaer Station (Project Cost \$55million)
    - Documentation and reporting inspection for the following items:
      - Earthwork, demolition, excavation, backfill and compaction
      - Steel rebar, ballast, bollards, water main pipes
      - Precast concrete T-beam platforms
      - Steel canopy columns, concrete slabs
      - Silt fence, erosion and sediment control, seeding
      - Sub-grade, subbase, base, intermediate and top course materials and HMA
      - Foundation, piles, concrete forms
    - Utilize project data to prepare status reports and other specialized reports ex. QC reports, monthly Progress Photo reports
    - Manage and direct quality control technicians on testing materials
    - Project management and supervision
    - Read, interpret and comprehend plans, specs, addenda, bid materials, contracts and other related documents
    - Conduct and attend job meetings, progress meetings and coordination meetings
    - Schedule and supervise required testing and monitor results
    - Monitor QC activities throughout construction
    - Identify quality problems and recommend solutions
    - Conduct physical inspections of construction in progress and upon completion
    - Review non-conformance reports and evaluating repair and use-as is dispositions
    - Observe and inspection of drainage Structures repair including: Catch basins, Culverts, Manholes, water pipes, conduits
    - Maintain close working relationship with supervisors and other department staff
    - Maintain quality communication skills
    - Implementation, maintenance and establishment of QC Program
    - Develop and maintain records for the project (Logs, files, lists)
    - NYDOT environmental requirements (Plan, Specs, Materials)
    - Familiarity with NYDOT Building Code
    - RFI and submittals
    - Observe installation of the work done by contractor and sub-contractor
    - Review and monitor project schedule and make recommendations to Project Manager
    - SWPPP and SPDES inspection and environmental statements and procedures

### **Massachusetts Department of Transportation**

June 2014-July 2016

#### **Project Development and Design**

- Assignments and Projects:
  - Review design of complete-street in Holden, Massachusetts (Project Cost \$8.6million)
    - Review request for proposals, project plans, drawings and specification
    - Understand and review project schedules
    - Review of Improvements on traffic safety and use of complete street design
    - Consult with regulatory agencies regarding interpretations and applications
    - Provide technical assistance and recommendation to unit staff, PM and client representatives
    - Roundabout design and traffic impact studies
    - Follow guidelines for healthy transportation in the design
    - Cost estimates for project
    - Prepare project initiation reports for transportation projects including environmental

reports

- Review resurfacing design for Exits 24, 25A 25B of I-290 (Project Cost \$5.6million)
  - Review and understand detailed project design estimates for work to be performed including:
    - Conduct preliminary surveys
    - Prepare schematic and work drawings
    - Prepare design estimate
    - Field work and measurement
  - Review final estimates
  - Assist in design and development of project
  - Develop, document and implement procedures
- Review design and perform estimate for quantities for Millbury Route I-146 (Project Cost \$6.5million)
  - Guardrail, unclassified excavation, fine grading and compaction
  - Drainage structure, precast concrete median barrier, gravel borrow, compost filter tube
  - Stormwater management
  - Review shop drawings submittals
  - Inspect existing facilities to ascertain their condition
  - Prepare reports depicting the condition, deficiencies observed, designs necessary for repairs, and estimated cost of repairs.
- Assisting project manager with project development during design phase
- Familiarity with Project Development and Design Guide (PDDG)
- Environmental Procedures and processes for working in wetland areas
- Attend bi-weekly meetings pertaining to the progress of the projects

### **Bridge Inspection and Design**

- Assignments and Projects:
  - Preparing design estimate for rehabilitation of:
    - 12 bridges using construction plans (Project Cost \$16.5million)
    - Steel reinforcement and concrete for bridge rehabilitation
    - Electrical conduits, water pipes
  - Calculate Bridge deck elevation
  - Review construction plans and specifications for conformance with applicable codes and standards
- Learn and familiarity with bridge ratings according to AASHTO and ACI
- Bridge design and inspection
- Perform engineering calculations
- Perform field inspections and site conditions
- Review contractor's submittals
- Prepare construction projects for streets, bridges and highways for review by District Engineer
- Learn and familiarity with site application module (SAM) and Sharepoint
- Prepare excel calculation book for construction equipment used in the site
- Knowledge of the principles and practices of civil engineering
- Knowledge of terminology and standard abbreviations used in civil engineer

### **Traffic Engineering**

- Review traffic management plans for a bridge replacement project in route 146 Millbury
- Compute design clearance interval time for signalized intersection
- Apply MUTCD guidelines in temporary management plans
- Prepare work orders for installation of warning signs
- Perform research as necessary to resolve code related issues
- Coordinate work with other departments engineers, architects and project engineers
- Signal inspection
- Review the activities of traffic, traffic signal control, construction and design
- Assist in developing policies, procedures and manuals for DOT
- Perform field maintenance work

### **Construction Engineering**

- Assignments and projects
  - Assigned as Field Engineer to the following projects:
    - Burns Memorial Bridge Replacement in Route 9 (Project Cost \$90million)
      - Supervise and inspect the work of contractor and subcontractor to insure conformance to plans, specifications and standard of good workmanship

- Water quality and wastewater engineering
- Knowledge of and maintained conformity to contract plans, special provision, standard specifications and S.O.P
- Awareness of the contractor's progress and schedule of operations
- Review highly technical designs, plans, specifications, addenda and change orders
- Application of bridge deck membrane, Bridge joint replacement
- Quality assurance
- Keep accurate notes and records of activities done by contractor
- Coordinate with Project Management to resolve project and/or program issues
- Learn about Design/Bid projects
- Concrete deck placement, HMA paving, Bridge deck membrane application
- Prepare punch list for completion of work
- Follow Federal and State environmental regulations
- Boston Road, Sutton, MA (Project Cost \$8million)
  - Demonstrate knowledge of calculation procedures and formulas and complex calculation in timely manner
  - Neat sketches and calculation suitable for final submission
  - Attend by-weekly meetings with Contractor, Consultants, Sub-contractors, town and city representatives
  - Daily communication with Resident Engineer/Supervisor on project
  - Collect samples and conduct field testing
  - Assist in the development, compilation and distribution of technical data
  - Meet with consultants to review and assist them in their submission
  - Compare subcontract estimates with established contract requirement
  - Review work package to ensure consistency with estimate
  - Check-dams for storm management
  - Knowledge of principles of hydraulics as applied to surface drainage pipe
- Route 146 Millbury, MA (Project Cost \$6.5)
  - Inspection and supervision of the following for conformance with Specs and Plans
    - Elastomeric coating for concrete barrier protection
    - Guardrail, catch basins and manholes, clearing and grubbing
    - Excavation, back fill and compaction, grading
    - Micro milling and HMA paving testing (Coring)
  - Perform mathematical calculations to compute volumes and areas
  - Review highly technical architectural/engineering reports and studies
  - Work zone traffic and site safety check and management
  - Process and monitor contract payments
  - Coordinate daily traffic pattern
- All Electronic Tolling, Massachusetts Turnpike I-90 (Project Cost \$150million) and ITS project District wide (Project Cost \$35million)
  - Review consultant and contractor's progress payments
  - Prepare, evaluate and make recommendation to Project Manager related to change order proposal
  - Estimate cost and monitor project budget
  - Coordinate work of all trades
  - Develop, monitor and maintain project records and utilize Share point to input data into applications and databases
  - Interpret boring logs and test pits
  - Perform site visits, monitor and observe construction, installation and testing of systems and technology
  - Field test for concrete (slump, air, temperature) for drilled shaft
  - Inspect loop cutting, hand hole installation, electric testing and acceptance
  - Ensure compliance with contract provisions and the quality of design and construction work performed by contractors and consultants

## **EDUCATION**

*Civil Engineering* Bachelor of Science, *Clarkson University* (Potsdam, NY)  
Cumulative GPA: 3.0/4

Graduated 2013

## **CERTIFICATES AND LICENSE**

New York Board of Professional Engineers, March 17, 2016 -Intern Engineer (EIT/FE), No. 092482  
NorthEast Transportation Training and Certification Program (NETTCP):

- ❖ Concrete Inspector, No. 1975

- ❖ Drilled Shaft Inspector, No. 644
- ❖ Hot Mix Asphalt Inspector, No. 3358
- ❖ Quality Assurance Technologist, No. 808
- ❖ Soils and Aggregate Inspector, No. 1493
- ❖ Subsurface Investigation Inspector, No. 206

Baystate Roads Program:

- ❖ Trenching & Excavating Safety: Competent Person

American Concrete Institute (ACI):

- ❖ Concrete Field Testing Technician - Grade I, No. 01324141

United States Nuclear Regulatory Commission (U.S.NRC):

- ❖ Nuclear Gauge Density

OSHA 10 Hour Construction Training, No. 11-004966397

First Aid AED, No. 02120079074

CPR certified

NYS Driver License

## **SKILLS**

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Technical: AutoCAD, STAAD.Pro, ArcGIS, MATLAB, Primavera Contract Management (PCM), Bluebeam Revu, GIS,

Excellent Microsoft word and excel skills, Adobe Acrobat, Photoshop

Language: fluent in English, Farsi; conversational in Russian, Urdu