

# Siahr Siddiqi

110 Brookline Rd Apt B-2, Ballston Spa,

NY 12020

Cell: 518-649-0560

[s-afg@hotmail.com](mailto:s-afg@hotmail.com)

## **PROFESSIONAL WORK EXPERIENCE**

### **The Middlesex Corporation**

August 2016-Current

- **Quality Control Manager for the following Project**
  - Construction of Albany-Schenectady Double Track & Rensselaer Station
    - 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
      - 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
    - Read, interpret and comprehend plans, specs, addenda, bid materials, contracts and other related documents
    - Conduct and attend job meetings, progress meetings and coordination meetings
    - Materials testing and assessment
    - Monitor QC activities throughout construction
    - Identify quality problems
    - Review non-conformance reports and evaluating repair and use-as is dispositions
    - Observe and evaluation of drainage Structures repair including: Catch basins, Culverts, Manholes, water pipes, conduits
    - Monitor dust control and utilize water truck if needed
    - Silt fence, erosion and sediment control, seeding
    - Implementation, maintenance and establishment of QC Program
    - Verifying that inspection and testing performed by qualified personal
    - NYDOT environmental requirements (Plan, Specs, Materials)
    - Familiarity with NYDOT Building Code

### **Massachusetts Department of Transportation**

June 2014-July 2016

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

- Assignments and Projects:
  - Review design of complete-street in Holden, Massachusetts
    - Review request for proposals, project plans, drawings and specification
    - Understand and review project schedules
    - Review of Improvements on traffic safety
    - Understand the role of using 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
  - In-house design of Exits 24, 25A, 25B of I-290
    - 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 of the following quantities for Millbury Route I-90

- 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
    - Steel reinforcement for bridge rehabilitation
    - Electrical conduits
  - 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
- 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
- Perform field maintenance work

### **Construction Engineering**

- Assignments and projects
  - Assigned as Field Engineer to the following projects:
    - Burns Memorial Bridge Replacement in Route 9
      - Supervise and inspect the work of contractor and subcontractor to insure conformance to plans, specifications and standard of good workmanship
      - 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
    - Boston Road, Sutton, MA
      - 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
  - 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
  - Site safety check and management
  - Coordinate daily traffic pattern
- All Electronic Tolling, Massachusetts Turnpike I-90 and ITS project District wide
  - Inspect and supervise daily work done with contractor, sub-contractor
  - 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**

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

Graduated 2013

## **CERTIFICATES AND LICENSE**

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New York Board of Professional Engineers, March 17, 2016 -Intern Engineer (IE/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

## **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