

Abdul Mayar

Associate Structural Engineer - Sargent & Lundy LLC

Wilmington, DE - Email me on Indeed: [indeed.com/r/Abdul-Mayar/0aebd1c7615c96e3](https://www.indeed.com/r/Abdul-Mayar/0aebd1c7615c96e3)

WORK EXPERIENCE

Associate Structural Engineer

Sargent & Lundy LLC - March 2014 to Present

Analysis and design of new and existing pipe supports. Analysis included static and dynamic analysis, response spectra analyses

- Analysis and design of new and existing conduit supports, cable trays and mounting electrical and mechanical components such as boxes, electrical cabinets and transformer supports
- Analyzing and designing of base plates with APLAN, a Finite Element Software of S&L.
- Analysis and design of foundation for heavy mechanical components such as transformer supports
- Designing monorails
- Qualification of over loaded building floor for heavy mechanical components
- Design of Reinforced Masonry (ACI 530)
- Sketching conceptual and final designs for draftsman and back checking the drawings.
- Computer applications used while working in S&L: Analysis, designs and drafting applications such as Staad.Pro, GT Strudl, APLAN, ADINA, AutoCAD, MicroStation

Structural Engineer

KA Group of Construction Companies - January 2009 to February 2011

Review of reinforced concrete and steel building structures' drawing and calculation

- Design of building structures (reinforced concrete and steel according to ACI-318, IBC, ASCE7 and AISC Steel Construction Manual
- Design of bridges according to AASHTO LRFD Bridge Design Specification and AISC Steel Construction Manual while using SAP2000 and Mathcad
- Design of culverts, and retaining walls
- Review and design road's drawing and calculation (Geometric and Structural)
- Construction Material (Road & Structures) Testing
- Road Survey (Total Station, Theodolite)
- Proposal Writing (Technical/Financial) and preparing Bidding Document for Projects
- Quantity Survey and Costing of Projects and Scheduling
- Managing of construction activities and helping site engineers with technical issues, and coordinating with clients

Intern Engineer

United Nation Offices for Project Services - September 2007 to February 2008

Building Structure Implementation: Worked closely with site engineers in construction of five story building for National Customs and Revenue Headquarters in Kabul. I helped them make sure that specification and codes of quality and safety are followed, and work is up to the quality. I also monitored construction activities and made sure that it is up to the project schedule.

- Construction Material (Road & Structure) Testing: soil, aggregate, cement, concrete, bitumen according to ASTM and AASHTO
- Road Design (Geometric and Structural), according to AASHTO (A Policy on Geometric Design of Highways and Streets)
- Road Survey (Total Station, Theodolite)

Teacher

Khurasane Nawin Education Center - January 2006 to December 2007

Teaching Mathematics, Physics

- Teaching English Language

Licensures and Certifications:

EIT (Engineer-in-Training - Fundamentals of Engineering) - Michigan State Board of Professional Engineers

EDUCATION

Masters of Science in Structural and Earthquake Engineering

State University New York at Buffalo - Buffalo, NY

August 2011 to June 2013

Bachelor of Science in Civil Engineering

Kabul University

March 2003 to December 2008

LINKS

<http://www.linkedin.com/in/aqmayar>

ADDITIONAL INFORMATION

Computer Skills:

Engineering Professional Computer • Nonlin

Applications • AutoCAD

• ABAQUS 6.12 • MicroStation

• MATLAB • AutoCAD Civil 3D

• SAP 2000, ETABS, SAFE General Computer Applications

• CSI Bridge • MS Windows

• STAAD.Pro • MS Office

• GT STRUDL • 3D Max

• Mathcad • Programming with C

• XTRACT • Visual Basic 0.6

• SeismoSignal • Web Design Package

Languages:

English, Pashto, Persian/Dari

Career Objective:

Joining a professional organization where I can use my knowledge and experience, do my best for humanity and upgrade my skills and capabilities for a brighter future.