



Mesbah Shahamirian

M.S., EIT

Structural Engineering Intern

OFFICE

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EMAIL

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CONTACT

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Mesbah is a Civil Engineering Professional with nearly 10 years of demonstrated proficiency in the field of Structural Engineering. He specializes in structural analysis and design. His experience includes the design of low- and mid-rise steel and concrete residential buildings, as well as providing as-built plans for bridges and other infrastructure. He has analyzed and designed concrete and steel structural elements, examined bridges for structural deficiencies, and inspected steel framework, reinforcing steel mesh and rods, and concrete forms to ensure quality standards and to verify conformance to specifications and building codes. Mesbah has further experience developing concrete mix designs and is proficient in concrete technology. In addition, he has sound knowledge of safety standards which he is able to translate onto construction sites. Mesbah is an expert in AutoCAD and structural design software such as ETABS and SAP.

EDUCATION

Azad University

Master of Science in Civil Engineering – Construction Management and Engineering
Tehran, Iran
2010

Azad University

Bachelor of Science in Civil Engineering
Tehran, Iran
2006

PROFESSIONAL EXPERIENCE

Forensic Structural Inspector

OCI Group (Formerly Origin and Cause Incorporated)
April 2024 – Present

Civil Engineer (Co-op)

Bridge Check Canada
April 2022 – July 2022

- Inspected bridge structural elements and examined deficiencies
- Provided as-built plans for bridges and other infrastructures
- Examined and prepared concrete and aggregate samples for testing
- Reported, calculated, and checked test results and assisted in the preparation of reports
- Reviewed final test reports as directed by the Senior Lab Technician and Materials Engineer

Structural Engineer

TICAB-TARRAH Engineering Consultant Co. Fars.
September 2018 – November 2021

- Responsible for 25 mid-rise buildings

- Prepared inspection reports for structural site investigations
- Coordinated the Building Services design activities with architects and other disciplines
- Delivered a fit-for-purpose Building Services design for construction
- Prepared contract documents as well as reviewed project documents prior to issue for scope and presentation, including checking for technical accuracy
- Performed engineering analysis and design of concrete and steel structural elements according to local building and design codes/standards

Structural Engineer

Inspection Organization of Iran, Governmental Project Division, Engineering Team
February 2014 to September 2018

- Examined 200 structures of governmental buildings (total built up area≈ 300,000 m²)
- Reviewed design and as-built drawings of restoration project (steel structure of municipal building)
- Described existing structural conditions and provided engineering solutions
- Inspected steel framework, reinforcing steel mesh and rods, concrete forms to ensure quality standards and to verify conformance to specifications and building codes
- Evaluated construction sites to ensure that safe working conditions were maintained
- Reviewed existing buildings to identify and report on structural defects
- Made records of the project with contractors, engineers, other professionals, and agencies

Junior Structural Engineer

Alborz Engineering Consultant Co. Fars
April 2012 – January 2014

- Responsible for concrete and steel buildings, including 1,335 condominiums
- Providing the model, loading, and material properties for the structural team
- Compiled implemented works on-site and structural details in drawings
- Reviewed compliance with safety and regulatory standards
- Provided structural drawings and details
- Monitored the material and structural integrity on-site

FURTHER TRAINING & EDUCATION

- Engineering Connections Program, Humber College, 2023
- Structural Inspection, Seneca College, 2023
- Roofing Inspection, Seneca College, 2023
- Part 9 The House Building Envelope Course, George Brown College, 2023
- Energy Management (in Building), University of Toronto, 2022
- Internationally Trained Professional Co-op Program, Dufferin-Peel Catholic District School Board, 2022
- Worker Health and Safety Awareness in 4 Steps, Ontario Ministry of Labour, 2022
- Building Superintendent Certificate, Building Engineering Organization of Iran, 2012