**Roshan Rashed-Mohassel**

**Geotechnical Expert**

**Toronto,Canada**

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**SKILLS & QUALIFICATIONS**

• Academic and technical knowledge and experience in geotechnical design

• Preparation of technical reports and presentations

• Geotechnical design of offshore/onshore structures

• Preparation and interpretation of geotechnical investigation reports

• Geotechnical evaluation of offshore/onshore sites and design of soil improvement methods

• Familiarity with international geotechnical codes and standards such as AASHTO, FHWA, OCDI, API, etc.

• Ability to meet deadlines and manage multiple assignments

• Ability to handle large, multi-discipline projects

• Excellent communication and presentation skills

• Structural design of industrial structures

• Preparation of technical proposals

**WORK EXPERIENCE**

**Geotechnical Engineer/Proposal Coordinator: May 2017- June 2018**

MG Consulting Engineering Co., Iran.

Working on multiple Dam and Hydropower projects. Responsibilities included:

* Preparation of geotechnical investigation Scope of Work, in-situ and laboratory tests program, geotechnical engineering reports
* Design of water diversion dams
* Preparation and review of geotechnical methodologies
  + - Coordinating proposal preparation process including attending kick-off meetings, participating in preparation of documents, attending review meetings / final document review, managing document governance, print production and delivery of the completed proposal
    - Ensuring proposal documents follow standard formatting and quality standards
    - Consolidating sections and / or documents developed by other team members into the required tender format
* Market study to identify target countries, international partners and tenders
* Preparation of reports and presentations in meetings

**Geotechnical Engineer: September 2014-May 2017**

**Pars Geometry Consulting Engineers, Iran.**

Working on multiple port planning, oil and gas, and infrastructure projects. Responsibilities included:

* Preparation of offshore/onshore geotechnical investigation Scope of Work, in-situ and laboratory tests program and geotechnical engineering report
* Supervision of geotechnical field investigations and laboratory tests
* Interpretation of geotechnical investigation reports and site characterization
* Stability analysis (static, pseudo-static) of offshore structures such as breakwaters, berths and quay walls and onshore excavations with GeoStudio/Slope and Slide.
* Dynamic analysis of breakwaters using PLAXIS.
* Geotechnical evaluation of project sites and soil improvement design for various structures such as suction chambers, pipelines, pumping basins, weir box, water reservoir tanks and buildings.
* Design of soil improvement methods such as soil replacement, deep soil mixing, stone columns, dynamic compaction, dynamic replacement, piles, etc. and provision of soil improvement reports and specifications.
* Liquefaction analysis for onshore/offshore sites (using hand calculations and Liquefy)
* Seepage analyses using GeoStudio/Seep.
* Preparation of offshore/onshore Earthwork Specifications
* Preparation of earthworks, excavation and soil improvement drawings
* Coordination of technical office and site during geotechnical investigations

**Structural Engineer: March 2010- September 2014**

**Asehsanat Consulting Engineers, Iran.**

Working on multiple industrial projects. Responsibilities included:

* Design of shallow foundations for industrial and administrative buildings
* Slope stability calculations
* Geotechnical Engineering Report review
* Geotechnical site investigation supervision
* Design and design review of industrial structures
* Preparation of structural design criteria
* Coordination between site and technical office during construction
* Coordination between multiple disciplines (structure, architecture, mechanical and electrical) during design and construction phases

**SOFTWARES**

GeoStudio, PLAXIS, Slide, Allpile, Liquefy, AutoCAD, ETABS, SAP, SAFE, ABAQUS, Microsoft Office,

**EDUCATION**

• M.Sc., 2011-2013, University of Tehran, Civil Engineering-Geotechnical Engineering

• B.Sc., 2005-2010, University of Tehran, Civil Engineering

• Diploma, 2005, Iran High school, Mathematics and Physics Major

**PUBLICATIONS**

Rashed Mohassel, R., Fakher, A., and Mohammadi, S. (2013), “Behavior of a Stiff Layer Overlying Loose Soil under Footing Load”, First National Geotechnical Engineering Conference, Ardebil, Iran.

**OTHER EDUCATION AND TRAININGS**

• PLAXIS Training Course, 2016, Iranian Geotechnical Society

• ABAQUS Training Course, 2012

Dear Sir/Madam

# This is to express my interest in the Geotechnical Engineer position ([Job Number: 17000163)](https://golder.taleo.net/careersection/careersection/candidateacquisition/flow.jsf). I would like to apply for this role on the following grounds:

I have been working as a Geotechnical Engineer in different consulting engineering firms from 2010, gaining experience in various industry sectors such as mining, oil and gas, port planning, dam and hydropower. During this period, I had the chance to cooperate in challenging projects dealing with complex problems that not only required knowledge and vision in geotechnical issues, but a rather broader vision of all disciplines involved including architecture, structure, hydraulic structures, mechanical and electrical.

As a geotechnical engineer, I have prepared geotechnical investigations scope of work for various site conditions together with in-situ and laboratory tests order, supervised the process and later interpreted and used the results for deriving soil parameters which have been consequently used for design of various onshore/offshore structures. I have been involved in design of large offshore structures such as various types of breakwaters (rubble mound, caisson, composite) and quay walls both in shallow water and in water depths of more than 30 meters and regular onshore excavations, in which I was responsible for slope stability analysis both in static conditions and under design earthquake, mostly using GeoStudio and Slide software. I have also experience in design of various soil improvement methods such as soil replacement, deep soil mixing, stone columns, piles and dynamic compaction for water and oil storage tanks, water intake basins, weir boxes, suction chambers, pipelines and buildings. The type and extent of soil improvement methods were usually determined after evaluation of the sites from bearing capacity, settlement and liquefaction points of view.

My strong technical background resulted from academic education and 8 years of professional experience helped me develop my qualifications in various areas such as: geotechnical design, structural design, bid coordination, negotiation and presentation, inter-disciplinary and inter-department coordination, problem solving, research and report preparation. I am a quick learner both in terms of technical and organizational skills, self-starter and well capable of working under pressure, delivering my responsibilities and solving problems with minimum supervision.

I am confident I can have a meaningful contribution to my employer’s efforts; please do not hesitate to contact me for any further information.

Best Regards;

Roshan Rashed