



Mohammad Balouchi

Researcher, Construction Manager, and Consultant

With +15 years of experience in Civil Engineering
Mostly in Construction industry.

PhD in Civil Engineering, Construction Management

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ORCID: [0000-0001-5622-0991](https://orcid.org/0000-0001-5622-0991)

Date of birth: 07/31/1982

Nationality: Iranian

URL: [Google Scholar](#), [Research Gate](#),
and [LinkedIn](#).

SUMMARY

Experienced Management Supervisor and a researcher, university lecturer, instructor, and construction management and knowledge management consultant with excellent problem-solving skills and a demonstrated history of working in the civil engineering industry and construction projects who received a Ph.D. from Semnan University in the field of Cost of Quality (COQ) in Mass-Housing projects. Strategic-thinking professional with many years of professional experience in the industry, as well as academic experience in teaching and researching different areas of Construction Management and Engineering resulting in many publications in international journals, conferences, and also an international book. Proficient in many areas of construction management including Research and Development in Construction Companies, Knowledge Management, Lean Construction, Quality Management, Project Risk Management, Business Transformation, Workplace Innovation, Entrepreneurship Management, Economic Analysis, and Feasibility Study, Project Risk Management, Project scheduling, Cash Flow Analysis, Project Coordination, Quality Costs, Decision-Making process. Skilled in professional computer software like Primavera P6, Microsoft Project, AutoCAD, Revit, Python, Microsoft Office, etc. The rest of the CV will describe more about my expertise.

EDUCATION

Ph.D., Construction Management and Engineering, GPA: 3.9 out of 4.0, 2019.

Semnan University, Semnan, Iran

- Thesis: Develop A Budget Allocation Model for Quality Costs in EPC Mass Housing Projects
- Supervisors: [Dr. M. Gholhaki](#), [Dr. A. Niusha](#), and [Dr. A. De Marco](#).

M.S., Civil Engineering, 2007.

The Isfahan University of Technology, Isfahan, Iran

- Thesis: Controlling the Scour Depth with Collars of Modified Geometries
- Supervisors: [Dr. M. Reza Chamani](#) & [Dr. M. Karim Beirami](#).

B.Sc., Civil Engineering, 2004.

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

- Thesis: Steel and Concrete Projects: Analysis, Design, and financial Estimation of a seven-story building
- Supervisors: [Dr. Ardeshir Deylami](#) & [Dr. Alireza Rahaii](#).

WORK EXPERIENCE

Assistant professor

2023/09 - Present

Civil Engineering Department, Semnan University, Semnan, Iran

- Prepare and deliver regular lectures for students.
- Consult students in selecting and doing their dissertations.
- Publish research outcomes in reputable journals.
- Conduct tutorial sessions, seminars and lab classes.
- Guide class discussions and feedback amongst students.

R&D supervisor

2010/09 - Present

Kayson, International Construction Company, R&D and Knowledge Management Divisions, Tehran, Iran

- Managed more than 15 Research and Development projects in the corporation.
- Documented more than 15 Construction Method Statements for tendering discipline.
- Researched on New Technologies based on organization needs resulted in more than 10 formal written packages.
- Designed and Conducted a Knowledge Management system in the organization and more than 10 projects.
- Documented 4 Project Final Book.
- Proposed and Consulted on New Construction Systems Deployments in projects like BIM, and Lean Construction.

Adjunct Lecturer

2022/01 – 2023/07

Islamic Azad University Tehran West Branch, Tehran, Iran

- Prepared and delivered lectures for students.
- Guided class discussions and feedback amongst students.
- Prepared and marked student assignments and exams.

Project Management Consultant**2020/10 – 2022/09**Nikray, Engineering and Construction Company, *Tehran, Iran*

- Mentored and trained more than 50 hours of training for Project Managers according to PMBOK Guide 6th Edition.
- Provide a centralized management structure for all 10 knowledge areas of project management.
- Developed managerial processes such as AAR (After Action Review) Warehouse management system, etc.
- Consults and provide decision support for the managing director.

Ph.D. Visiting Student**2016/10 – 2017/05**

Polytechnic University of Turin, Turin, Italy

- Conducted research in the area of Construction Management under the supervision of Dr. Alberto De Marco.
- Participated in Project Management Course.

Iran Mall Project Engineering Contracts Deputy**2015/09 – 2017/10**

Kayson, International Construction Company, Tehran, Iran,

- Coordinated more than 30 Engineering Contracts in Iran Mall Project.
- Produced and Documented fundamental primary introduction report for new components of the Iran Mall Project.

Head of Civil Discipline**2008/04 – 2010/09**

Power Plant Construction Management Company, Design Management for Power Station, Tehran, Iran,

- Managed five experienced engineers for civil designs.
- Designed water distribution system, open channels, Roads, and Pavements for Power Plant.
- Designed landscape and alignments for the Site Plan.

RESEARCH INTERESTS

- Cost of Quality in Mass-Housing Projects.
- Quality Management.
- Lean Construction.
- Reworks causes and costs.
- BIM and Virtual reality in Construction.
- Construction Productivity.
- Project Risk Management.
- Excellency Model.
- Public Private Partnership.
- Project Law.
- Claim Management.

PUBLICATIONS

Selected Papers:

- **Balouchi, M.,** Gholhaki, M. and Niousha, A. (2019). Reworks causes and related costs in construction: case of Parand mass housing project in Iran, *International Journal of Quality & Reliability Management*, 36(8), 1392-1408.
- **Balouchi, M.,** Gholhaki, M., & Niousha, A. (2019). Prioritizing the Main Elements of Quality Costs in Design-Build Mass-Housing Projects. *Civil Engineering Journal*, 5(5), 1136-1146.
- **Balouchi, M.,** Chamani, M. R., (2012). Evaluating of Scour pit shape in different shapes of Collars, *1st International and 3rd Iranian Conference on Dams and Hydropower*, IRIB International Conference Center, Tehran, Iran.
- **Balouchi, M.,** Balouchi, A., (2010). Scour depth controlling changing the shape of the collar, *1st International Conference on Civil Engineering*, Makassar, Indonesia.
- **Balouchi, M.,** Balouchi, A., (2009). Investigation of Collar shapes changing effect on delay and equilibrium time of scouring, *8th International Congress on Civil Engineering*, Shiraz University, Shiraz, Iran.

Books:

- **Balouchi, M.,** (2010), *Scour Controlling around Bridge Piers by changing the shape of Collar*, United States: VDM Verlag Dr. Müller Publishing Co.
- **Balouchi, M.,** Gholhaki, M., *Lean Construction: A new theory for Design, Procurement, Construction and Delivery of Construction Projects*, Semnan University Press, (in Farsi).
- **Balouchi, M.,** Jamakloo, T., *Façades Principles of Construction*, (Under Publication, translation to Farsi).

PROJECTS

02/05/2022 – CURRENT

The comparison between Tunneling Method and Kayson Method for Mass-Housing Projects

02/02/2022 – CURRENT

Propose a new Safety Training Method Based on Digital Twins, the Last Planner System, and the Daily Huddle.

10/06/2020 – 01/12/2020

Prefabricated Houses and its advantages and disadvantages in Iran

08/07/2019 – 12/04/2020

Papercrete and its usage in building construction

13/10/2018 – 07/05/2019

Possibility of using Solar Energy in Iranian Building Projects

14/09/2014 – 10/04/2015

Various kinds of facades construction and selecting the best way for Kayson Projects

This project has been done in cooperation with Dr. Kari.

01/09/2012 – 10/05/2015

Selecting the best method for 5 story building in the mass housing projects and optimization of the current method of Kayson

This project has been done in cooperation with the University of Tehran.

06/04/2013 – 10/08/2013

The best complex of foam concrete in building construction

09/06/2012 – 15/07/2013

Special Concrete Usage in Kayson projects

This project has been done in cooperation with the Tehran University Concrete Materials Institute.

SOFTWARE SKILLS

- Primavera P6, MS Project, Microsoft Office (Excel, Word, PowerPoint, Visio), Excel Solver.
- SPSS, MATLAB, FORTRAN, Python.
- TEKLA, SAP, SAFE, ETABS, Geo-Office, CutMaster, Surfer.
- AutoCAD, REVIT (Architecture and Structure Package).

LANGUAGE

- Persian (mother tongue), • English (rather fluent), • Arabic (familiar), • Italian (basic)

PROFESSIONAL APPROACH

- Careful design and consideration for probable future requirements.
- Consider about performance and efficiency of various resource type consumption.
- Make it easy for the future to implement, understand, and develop the program, by choosing simple solutions, suitable naming, appropriate comments, and required documentation.
- Investigate others' experiences with a free and open mind for potential innovations.
- Mutual respect and appreciation among colleagues at various levels.

PROFESSIONAL MEMBERSHIPS

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| • Member of Iranian Constructional Engineering Organization (PE license of grade 1), | 2009 – Present. |
| • Main membership in the Iranian Committee of Large Dams (IRCOLD), | 2011 – Present. |
| • Main membership in the Iranian Concrete Institute (ICI), | 2013 – Present. |
| • Main membership in the Iranian Project Management Association (IPMA), | 2016 – Present. |