

MOHAMMAD AKHAVAN

NO.3 Afkhami Alley | Yarmohammadi St. Shahrzad Blvd., Pasdaran St., Tehran | +989123257448 | mhd_akhavan@aut.ac.ir

EDUCATION

Iran University of Science and Technology | Tehran | 2014

Master of Science, Construction Management Department, GPA: 16.3/20

Master Thesis: "Development of a New Method of Project Risk Analysis using Combination of FMEA and Fuzzy Algorithm, Case Study: Dam Construction"- Supervisor: Dr. Chavoshian

Amirkabir University of Technology (Poly Technic) | Tehran | 2012

Bachelor of Science, Civil and Environment Engineering Department, GPA: 13.6/20

Danesh High School | Tehran | 2007

Mathematics and Physics Diploma, GPA: 19.28/20

Honors: *1st rank*

REASERCH INTEREST

- Construction Project Management
- BIM
- Sustainable Built environment
- Renewable Energy Technologies
- Smart City
- Computer Modeling and Simulation

WORK EXPERIENCE

Work Experience

Project Planner & Controller Expert | **Mahab Ghodss Consulting Engineering Company** |

Tehran | February 2015 - Present

- Contributed to project scheduling and planning using CPM scheduling method (S-Curve, Earn value, SPI, CPI).
- Integrated planning and programming (scheduling projects in a large complex scheme)
- Preparing all kind of management and monitoring reports
- Monitoring and control projects (daily, weekly, monthly)
- Project manager assistance

Civil Engineer | **Stratus International Contracting Company** | Tehran | September 2012 - April 2014

- Worked as a part-time structural designer, Vavan residential town project
- Completed project management professional courses
- Prepared project management plan for Vavan residential town project
- Produced maps using ETABS, SAFE and AUTOCAD for Hanza buildings, Tehran, Iran

Teaching Experience

Teaching assistant | **Iran University of Science and Technology** | Tehran | 2014

- Civil Eng. Dept., PMP Preparation course, M.Sc. program

Teacher | **Molla Sadra High School** | Tehran | 2007 - 2014

- High school part-time Geometry teacher
- Private Physics and Calculus teacher

PUBLICATIONS

- Amirsaman MAHDAVIAN¹, Alireza SHOJAEI², Mohammad AKHAVAN, "FINANCIAL RISKS ASSOCIATED WITH THE HIGHWAY CONSTRUCTION; A SURVEY OF THE LITERATURE", ASCE Journal, 2019-- under review

- Amirsaman MAHDAVIAN1, Alireza SHOJAEI2, Mohammad AKHAVAN, “An Application of Constraint-based Simulation for Project Planning”, Journal of Building Engineering”, 2019-- under review
- Arash MOHSENI, Amirsaman MAHDAVIAN1, Alireza SHOJAEI2, Mohammad AKHAVAN, “Simulation-Based Earthmoving Fleet Arrangement with Project Time Cost Analysis”, 2019-- Under Preparation
- Mohammad AKHAVAN, Iraj HARSINI, Melika AKHAVAN, “Renewable Energy Management to Create a Sustainable Smart City”, 2019-- Under Preparation
- Mohammad AKHAVAN, Melika AKHAVAN, “A Framework for Developing Time Performance using BIM in Construction Projects”, 2019-- Under Preparation
- Mohammad AKHAVAN, “Risk Management (Assessment and Ranking) in Construction of a New Town in Iran Deserts”, Strategic Department Center, 2017 --Published

GRADUATE LEVEL PROJECTS

- 5D building information modeling, 2014, Dr. Abbasnia, Dr. Ghoddousi, Iran University of Science and Technology
- Project scheduling using discrete-event simulation, 2013, Dr. Abbasnia, Payam Hadavi, Iran University of Science and Technology
- A project management framework for Project planning and project controlling, 2013, Dr. Abbasnia, Payam Hadavi, Iran University of Science and Technology
- A Hybrid CPM-DES Method for Project Scheduling, Dr. Abbasnia, Payam Hadavi, Iran University of Science and Technology
- Resource management using BIM-DES framework, 2013, Dr. Abbasnia, Payam Hadavi , Iran University of Science and Technology
- Evolution of public-private partnership models in Hospitals, 2013, Dr. Abbasnia, Dr.Ghoddousi, Iran University of Science and Technology
- Cost study on buildings height, 2013, Dr. Abbasnia, Dr.Ghoddousi, Iran University of Science and Technology
- Summary of PMBOK, 2013, Dr. Abbasnia , Dr.Ghoddousi, Saeed Zamani, Iran University of Science and Technology

HONORS AND REWARDS

- Ranked among top 0.5% of more than 40,000 participants in the nationwide Civil Engineering M.Sc. program entrance exam, 2012
- Ranked among top 0.3% of more than 300,000 participants in the nationwide Mathematics and Technical Universities entrance exam, 2007

CERTIFICATIONS

- Member of Construction Engineering Organization of Tehran State, No. 1030116979 (Equal to PE in USA)
- Project Management Comprehensive Course, 15 March 2014, No. 198515
- MSP Professional, Mahab Ghodss, 25 October 2015, No. 94073589016
- Building structures design with ETABS and SAFE, Stratus Co., No. 21966
- Enterprise Project Portfolio Management with Primavera

SKILLS

Computer:

- PYTHON, MATLAB, C++, VISUAL BASIC(VBA), FORTRAN, MS PROJECT, PRIMAVERA P6, Revit, NAVIS WORKS, Minitab, SAP, SAFE, ETABS, AutoCAD, MATHEMATICA, MICROSOFT OFFICE, HEC-HMS, EPA-Net, EPA-WMM, COMFAR

Language Proficiency:

- Farsi: Native language
- English: IELTS score: 7 (Reading: 7.5 , Listening: 8 , Speaking: 6, Writing: 6.5)
- GRE: Quant: 165, Verbal: 148, Writing:3

OTHER ACTIVITIES

Volunteer work: Teaching mathematics and physics to deprived children in Reza Charity Foundation for 5 years

Hobbies: Professional TRX Training, Swimming, Listening to Classical Music, Traveling

*References are available upon request