

## Amir Homayoun Jaberi

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### Education

**Bu-Ali Sina University** | Hamedan, Iran

University website: [basu.ac.ir/en/home](http://basu.ac.ir/en/home)

- M.Sc. Construction Management Sep 2019 – Jan 2023

GPA: 4/4 (excellent grade for thesis)

Master's thesis title: "Optimal Outcome Sharing with Subcontractors in Construction Contracts".

Supervisor: Dr. S. Mahdi Hosseinian

  - B.Sc. Civil Engineering Sep 2013 – Dec 2018

GPA: 3/4

Project title: "Determination of project make span distribution based on the most probable states method".

Supervisor: Dr. Mohsen Babaei
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### Honors & Awards

- Patent of Pasty Deposition Modeling (PDM) 3D-Printer with the ability of additive manufacturing with plastic materials such as mud, concrete and cement-based materials.
  - Ranked 1<sup>st</sup> GPA among the graduating classes of 2018 to 2023 in the master program at Bu-Ali Sina University.
  - Awarded for merit-based admission of M.Sc. program in Construction Management at Bu-Ali Sina University (exempted from Iranian University Entrance Exam for master's degree).
  - Awarded for innovation design of Common Utility Ducts (CUD) at Iran's National Elites Foundation (INEF): 4th rank among all participants of INEF competition (Rahneshan). Studying the feasibility, structural designing, and development of detail of implementation and repairing solution for Common Utility Ducts (CUD).
  - Ranked within the top 2% among more than 250,000 participants in Iranian University Entrance Exam for master's degree in Civil Engineering.
  - Ranked 190<sup>th</sup> in Iranian National Universities Graduate Entrance Exam in Civil Engineering.
  - Received national graduate tuition waiver for Master's.
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### Research Interests

- Contract Management
  - 3D printers and additive manufacturing
  - Operation Research
  - Application of Lean Methodology in construction
  - Optimization
  - Building Information Modelling (BIM)
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## Academic Experiences

### Teaching Assistant | Bu-Ali Sina University

Hamedan, Hamedan, Iran - [February 2021 – Present](#)

- Teaching “**Project Management**” & “**Construction Equipment’s Management**” for master students of construction management.

### Research Assistant | Bu-Ali Sina University

Hamedan, Hamedan, Iran - [August 2020 – Present](#)

- Developed models; gathered, arranged and corrected research data to create representative graphs and charts highlighting results for presentations.

### Software Instructor | Bu-Ali Sina University

Hamedan, Hamedan, Iran - [October 2019 - February 2021](#)

- Trained and developed students' skills in Software as: CSI Etabs, CSI SAP 2000, Slide, Autodesk AutoCAD, Autodesk Revit (Structural discipline), Microsoft Project, PrimaveraP6.

### Teaching Assistant | Bu-Ali Sina University

Hamedan, Hamedan, Iran - [September 2017 - January 2018](#)

- Teaching courses as: excavation safety; quantities survey, and cost estimation.

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## Industry Experiences

### Chairman of the Board | Novin Mahan Hegmataneh

Hamedan, Hamedan, Iran – [September 2020 - Present](#)

- The start-up that we established with the help of my brother. I am the project director of the project which aims designing, manufacturing and developing 3D-printers.

### Civil Engineer | Sinab-Gharb Consultant Co.

Hamedan, Hamedan, Iran - [May 2018 - March 2019](#)

- Designing water transmission systems, water network systems, concrete and stone channels, industrial sheds, RC structures for water reservoir, drafting details of implementation specs, quantity surveying, and cost estimating for constructions.

### Intern Engineer | Saman-Pey Consultant Co.

Hamedan, Hamedan, Iran - [May 2017 - January 2018](#)

- Read and interpreted blueprints, technical drawings, schematics, and site-generated reports.

### Draftsman | Jaberi Technical Office

Tuyserkan, Hamedan, Iran - [September 2011 - September 2014](#)

- Jaberi Technical Office is established by my parents & I was working there as a draftsman since I entered high school until university entrance. drawing isometry, plan, & section of residential construction; quantity surveying and cost estimating were a portion of my duties.
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## Skills

### Technical Skills:

- Project management
- Cost Estimating
- Quantity Surveying
- Scheduling and Planning
- Delay Analysis
- Contract Administration
- Structural Engineering
- Lean Methodology

### Computer Skills:

- MATLAB
- Python
- Primavera P6
- Microsoft Project
- Autodesk Revit (Architectural and Structural Disciplines)
- Autodesk AutoCAD
- CSI Etabs
- CSI SAP 2000

### Personal Skills:

- Team Working
- Problem Solving
- Regular

### Other Skills:

- Teaching
- Painting

## Languages

### Graduate Record Examinations (GRE) [Sep 2023]:

Verbal Reasoning: 167 | Quantitative Reasoning: 169 | Analytical Writing: 5.5 |

### TOEFL [Oct 2023]

Listening: 30 | Reading: 27 | Writing: 26 | Speaking: 23 | Overall: 106

## Publications

### Journal Papers:

Hosseinian, S.M., **Jaberi, A.H.**, "Optimal Sharing of Construction Projects Outcomes with Downstream Contracting Parties: A Principal Agent Analysis", **Journal of Construction Engineering and Management** (Sep 2023).

Hosseinian, S.M., **Jaberi, A.H.**, Carmichael, D.G., "Optimizing the distribution of outcomes across multiple levels of subcontracting in construction projects", **Engineering, Construction and Architectural Management** (Sep 2023). <https://doi.org/10.1108/ECAM-05-2023-0439>

### Published Conference Paper:

**Jaberi, A.H.**, Hosseinian, S.M., "Optimum outcome sharing arrangement with a risk-neutral subcontractor in incentive contracts", **12th International Congress on Civil Engineering**, Mashhad – Iran (Jul 2021).

## Selected Courses

- Project planning and control: 18.7/20
- Advance Concrete technology: 16/20
- Construction methods: 18.25/20
- Construction Equipment's Management: 18.5/20
- Contract management: 18.2/20
- Project Management: 18.25/20
- Management information systems: 18.4/20
- Operation Research: 17/20

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## Membership

Member: American Society of Civil Engineers (ASCE), International organization. [Feb 2018 – Present](#)

Member: Scientific Association of Civil Engineering, Bu-Ali Sina University  
Hamedan – Iran [Nov 2020 – Sep 2021](#)

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## Courses & Certificates

- **Project Management Course – General** [2019](#)  
Amir Kabir University of Technology, Tehran – Iran
  - **Technician of implementation of reinforced concrete Constructions** [2020](#)  
Iran Technical & Vocational Training, Tehran – Iran
  - **Managing construction projects based on PMBOK standard** [2020](#)  
Iran Technical & Vocational Training, Tehran – Iran
  - **Data Analyst with MATLAB** [2020](#)  
Iran Technical & Vocational Training, Tehran – Iran
  - **Programming with python** [2021](#)  
Online Course, University of Michigan, Coursera.org
  - **Major Engineering Project Performance** [2020](#)  
Online Course, University of Leeds, Coursera.org
  - **SQL Course** [2020](#)  
Online Course, SoloLearn.org
  - **Python Core Course** [2020](#)  
Online Course, SoloLearn.org
  - **Financial Management** [2020](#)  
ACEMI, Tehran – Iran
  - **Project Planning and Scheduling Using Primavera P6** [2020](#)  
ACEMI, Tehran – Iran
  - **Claim Management and Dispute Resolution** [2021](#)  
ACEMI, Tehran – Iran
  - **Project Document Control and Management** [2020](#)  
ACEMI, Tehran – Iran
  - **Design-Bid-Build Project Delivery System** [2021](#)  
ACEMI, Tehran – Iran
  - **Project Economic Analysis** [2020](#)  
ACEMI, Tehran – Iran
  - **Project Planning and Scheduling** [2021](#)  
ACEMI, Tehran – Iran
  - **Basics, structure and documentation of quality management system in accordance with ISO 9001:2015** [2023](#)  
TUV Academy, Tehran – Iran
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## Extracurricular Activities

Member of the Technical Team of the Seventh National Conference and the **Third International Conference on New Materials and Structures in Civil Engineering** as a Graphic Designer (Poster, Banner and Catalog Designer).

Collaboration with Dast-E-Mehr Educational Charity as a graphic designer. Since 2020

Win the first place in student drawing and painting competitions. 2007 – 2012

Achieving the first rank of directing a short film in the short film festival of the Center for Intellectual Development. 2010

Design and construction of remote-control aircraft. 2010

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## References



### Mahdi Hosseinian (Assistant professor)

Cost estimating, Engineering economy, Construction management, Project planning and control, Contract management

Civil Engineering Department, Bu-Ali Sina University, Hamedan – Iran

Email Address: [s.hosseinian@basu.ac.ir](mailto:s.hosseinian@basu.ac.ir)

Scholar Link: [Link](#)



### Ebrahim Ghiasvand (Assistant professor)

Construction Equipment's Management, Project Management

Civil Engineering Department, Bu-Ali Sina University, Hamedan – Iran

Email Address: [e.ghiasvand@basu.ac.ir](mailto:e.ghiasvand@basu.ac.ir)

Scholar Link: [Link](#)

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