

Mahdi Shooshtari

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EDUCATION

- B.Sc. in Software Engineering, Department of Computer Engineering and Information Technology, Amirkabir University of Technology, Tehran, Iran.
Overall GPA: 17.14 out of 20 via 105 credits
Last Year GPA: 18 out of 20 via 37 credits **Fall 2010 - Present**
 - High School Diploma in Mathematics and Physics, National Organization for Development of Exceptional Talents (NODET), Hamedan, Iran.
Overall GPA: 18.63 out of 20 **Fall 2006 - Spring 2010**
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RESEARCH INTERESTS

- Computer Vision, Image Processing
 - Computer Graphics, Data Visualization
 - Machine Learning, Pattern Recognition
 - Data Mining, Information Extraction, Information Retrieval
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HONORS

- **Nominated for exemption from entrance exam of M.Sc. program** starting September 2014 as an 'Exceptional Talented', Amirkabir University of Technology, Tehran, Iran. **September 2013**
 - **Ranked top 0.28%** among more than 150,000 students participated in the nationwide entrance examination of undergraduate studies in Iranian universities. **September 2010**
 - Graduated with **rank 2** from Hamedan branch of National Organization for Development of Exceptional Talents (NODET) among 40 students. **June 2010**
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RESEARCH EXPERIENCE

- Computer Vision for Object Recognition by Parrot AR.Drone, Amirkabir Robotics Center, Hafez Ave., Tehran, Iran.
Supervisor: Dr. Saeed Shiry Ghidary **August 2013 - Present**
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TEACHING EXPERIENCE

- Teaching Assistant: ‘Research Method and Report Writing’, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran.
Instructor: Dr. Saeed Shiry Ghidary **Winter 2014**
 - Teaching Assistant: ‘Advanced Computer Programming’, Department of Mathematics and Computer Science, Amirkabir University of Technology, Tehran, Iran.
Instructor: Mr. Morteza Babaei **Winter 2014**
 - Teaching Assistant: ‘Principles of Computer and Programming’, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran.
Instructor: Dr. Saeed Shiry Ghidary **Fall 2013**
 - Teaching Assistant: ‘Logic Circuits’, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran.
Instructors: Dr. Saheb Zamani and Dr. Seddighi **Fall 2012**
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SCIENTIFIC REPORTS

- **Mahdi Shooshtari**, Arash Alavi, Mohammad Yaldaee, ‘*Designing and Solving Sudoku Using Genetic Algorithm*’, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran. **January 2014**
 - **Mahdi Shooshtari**, Arash Alavi, Amir Puran Ebn Veisheh, ‘*A Comprehensive Report on Reading and Processing of a Massive Text Data*’, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran. **June 2013**
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PRESENTATIONS

- Oral Presentation: **Java Programming in Linux**, Course Seminar in Operating Systems Lab, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran. **June 2013**
 - Poster Presentation: **Application of Genetic Algorithms in a Strategic Game**, Course Seminar in Research Method and Report Writing, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran. **June 2013**
 - Poster Presentation: **Reviewing Video Compression Systems**, Course Seminar in Multimedia Systems, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran. **June 2013**
 - Oral Presentation: **Solid Modeling**, Course Seminar in Computer Graphics, Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran. **December 2012**
 - Invited Talk: **Degree Decision: Choosing the Right Undergraduate Major**, A Seminar for High School Students, National Organization for Development of Exceptional Talents, Hamedan, Iran. **September 2011**
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SELECTED ACADEMIC PROJECTS

- **Designing and Solving Sudoku Using Genetic Algorithm**, as the course project for artificial intelligence. **Fall 2013**
- **Design and Implementation of a Software for Air Traffic Control**, as the course project for software engineering. **Spring 2013**
- **Reading and Processing of a Massive Text Data**, as the course project for data storage and retrieval. **Spring 2013**
- **Introductory Projects for MySQL, MongoDB, and Voldemort**, as the course project for principals of database design. **Fall 2012**
- **Advanced Implementation of Paint in Java**, as the course project for computer graphics. **Fall 2012**
- **Visualization, Movement and Rotation of 3-Dimensional Objects**, as the course project for computer graphics. **Fall 2012**
- **Design and Implementation of a Path Tracking Algorithm Using Java**, as the course project for algorithm design. **Spring 2012**
- **Design and Implementation of a Complex Logic Circuit Using Both PSPICE and ModelSim**, as the course project for logic circuits. **Fall 2011**
- **Text Coding Using Haffman Tree Algorithm**, as the course project for data structures and algorithms. **Fall 2011**
- **Implementing Tic-Tac-Toe, a Web-Browser, and Robo-Kill Game in Java**, as the course project for advanced computer programming. **Spring 2011**
- **Implementing Paint, Snake, Tetris, Text Editor, and Advanced Calculator in C++**, as the course project for principals of computer and programming. **Fall 2010**

OTHER ACTIVITIES

- Executive Manager in Multi-Cultural Exhibition, Amirkabir University of Technology, Tehran, Iran. **Fall 2011 and Spring 2012**

COMPUTER SKILLS

- **Languages and Scripts:** C, C++, Visual Basic, Visual C++, Java, Assembly, MySQL, MongoDB.
 - **Software/Applications:** Visual Paradigm, Adobe Illustrator, ORCAD, PSPICE.
 - **Hardware Description Languages:** ModelSim.
 - **Typesetting:** LATEX, Microsoft Word.
 - **Microsoft Office:** Word, Excel, Powerpoint.
 - **Operating Systems:** Windows, Linux, Mac.
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**LANGUAGE
PROFICIENCY**

- **Persian:** Native
 - **English:** Fluent
 - **Arabic:** Basic
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HOBBIES

- Chess, Hiking, Soccer, Movies, Reading
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REFERENCES

- Dr. Saeed Shiry Ghidary, Assistant Professor,
Department of Computer Engineering Information Technology,
Amirkabir University of Technology, Tehran, Iran
Homepage: <http://ceit.aut.ac.ir/shiry/>
E-Mail: shiry@aut.ac.ir
- Dr. Ahmad Nickabadi, Assistant Professor,
Department of Computer Engineering Information Technology,
Amirkabir University of Technology, Tehran, Iran
Homepage: <http://ceit.aut.ac.ir/autcms/people/verticalPagesAjax/professorHomePage.htm?url=nickabadidepurl=computer-engineeringlang=encid=284036>
E-Mail: nickabadi@aut.ac.ir
- Dr. Morteza Saheb Zamani, Associate Professor,
Department of Computer Engineering Information Technology,
Amirkabir University of Technology, Tehran, Iran
Homepage: <http://ceit.aut.ac.ir/szamani/>
E-Mail: szamani@aut.ac.ir