



# Amir Hosein Valadkhani

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## Education

- 2012–2015 **M.Sc.**, *K. N. Toosi Uni of Tech*, Tehran, GPA: 4/4.  
Control Systems
- 2007–2012 **B.Sc.**, *AmirKabir Uni of Tech (Tehran Polytechnic)*, Tehran, GPA: 3.1/4.  
Electrical Engineering, Major in Control Systems
- 2003–2007 **Diploma**, *National Organization for Development of Exceptional Talents (NODET)*, Qazvin, GPA: 4/4.  
Mathematics and Physics

## M.Sc. Thesis

- title *Soft Sensor Design For Tennessee Eastman Process With Bayesian Methods*
- supervisors Dr. H Khaloozadeh, Dr. MA Shoorehdeli
- Advisors Dr. Alireza Fatehi
- description In this thesis, identification base on Bayesian approach developed for multi-rate processes; moreover, presented method exploited in soft sensor designing for TE process and also this method practically implemented on Flow-Level benchmark.

## B.Sc. Thesis

- title *Designing Ultrasonic Gas Meter with Intelligent Compensator*
- supervisors Dr. A Afshar
- description In this thesis, physical structure of the ultrasonic gas meter redesigned to reach better performance in high and low level of gas flows; in addition, based on environmental condition of Iran, this gas meter equipped with intelligent neural compensator.

## Experience

- Feb 2015 – **Research Assistance**, *K. N. Toosi Uni of Tech*, Tehran.
- July 2015 Researching on developing inferential models, soft sensors and soft analyzers for plant-wide processes, especially based on Bayesian approach

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- Feb 2015 – **Process Lab Instructor**, *K. N. Toosi Uni of Tech*, Tehran.  
 July 2015 Training and testing how obtaining linear region experimentally, designing reference tracking controller and how rejecting the disturbances on Level, Pressure and Flow benchmarks
- Sep 2014 – **Teacher Assistance**, *K. N. Toosi Uni of Tech*, Tehran.  
 Jan 2015 Assisting Prof. Hamid D. Taghirad with Nonlinear Control in graduate level
- Feb 2014 – **Teacher Assistance**, *K. N. Toosi Uni of Tech*, Tehran.  
 July 2014 Assisting Prof. Hamid Khaloozadeh with Optimal Control in graduate level
- Feb 2014 – **Teacher Assistance**, *K. N. Toosi Uni of Tech*, Tehran.  
 July 2014 Assisting Dr. Mahsan Tavakoli-kakhki with Modern Control in undergraduate level
- Sep 2013 – **Teacher Assistance**, *K. N. Toosi Uni of Tech*, Tehran.  
 Jan 2014 Assisting Prof. Hamid Khaloozadeh with Linear Control in undergraduate level
- Sep 2013 – **Teacher Assistance**, *K. N. Toosi Uni of Tech*, Tehran.  
 Jan 2014 Assisting Dr. Mahsan Tavakoli-kakhki with Linear Control in undergraduate level

## Languages

Persian	<b>Native</b>	<i>Mother tongue</i>
English	<b>excellent command</b>	<i>Highly proficient in spoken and written English</i>

## Computer skills

Operating Systems	Mac OSX, Windows (XP to 8)	Engineering Softwar	Matlab, Simulink, LOGO!Soft comfort, SIMATIC Manager, EPLAN, Maple, LabVIEW
Word Processing	Latex, Word, Pages	Programming	M-file, R, C++
Presentation	Beamer, PowerPoint, Keynote		

## Awards and Honours

- Top 10% among the Electrical Engineering students of K. N. Toosi Uni of Tech in M.Sc. level (2014)
- Ranked 205th among the more than 30,000 B.Sc. students of EE in nationwide Konkoor-Karshenasi-Arshad examination (2012)
- Honored from Tehran municipality as one the best students of region 3 of Tehran (2012)
- Best scientific student community of the year in Iran (2011)
- Honored from the president of Amirkabir University for considerable achievements as a chief financial officer of student's scientific community of EE department (2011)
- Ranked 494th among the more than 400,000 college students in nationwide Konkoor examination (2009)

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## Professional Memberships/Affiliations

- Jan 2010 – **Member**, *Institute of Electrical and Electronic Engineers (IEEE)*.  
Present
- Jan 2013 – **Member**, *IEEE Control System Society (CSS)*.  
Present
- Jan 2015 – **Member**, *IEEE Systems, Man, and Cybernetics Society (SMC)*.  
Present

## Interests

- Volunteer work Technical and social groups
- Sports Basketball, Skiing, Mountain Climbing
- Reading News and drama

## References

Name	URL
○ Dr. MA Shoorehdeli	○ <a href="http://wp.kntu.ac.ir/aliyari/">http://wp.kntu.ac.ir/aliyari/</a>
○ Dr. H Khaloozadeh	○ <a href="http://saba.kntu.ac.ir/eecd/khaloozadeh/">http://saba.kntu.ac.ir/eecd/khaloozadeh/</a>
○ Dr. A Fatehi	○ <a href="http://saba.kntu.ac.ir/eecd/fatehi/">http://saba.kntu.ac.ir/eecd/fatehi/</a>
○ Dr. A Afshar	○ <a href="http://www.aut.ac.ir/official/main.asp?uid=aafshar">http://www.aut.ac.ir/official/main.asp?uid=aafshar</a>

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