

# CV1

**Nationality:** Iranian  
**Birth Date:** Sep. 7, 1988  
**Place of Birth:** Tehran, Iran

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## OBJECTIVE

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- To obtain a full-time position leading to a Master degree in the field of Transportation Systems in TU München

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## RESEARCH INTERESTS

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- Mathematical modeling of behavior
- Transportation Systems
- Traffic Control
- Control Systems (Optimized control)
- State Space Theory

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## EDUCATION

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- **University of Tehran**  
Department of Electrical and Computer Engineering, Faculty of Engineering, **Tehran, Iran**, Bachelor of Science in Electrical Engineering - **Control**, Expected February 2011

*Iranian Ministry of Science has selected University of Tehran as the BEST school for its Control department, declaring it a "scientific pole" in the field of Control*

**Sep. 2006 – present**

Overall GPA until now: **16.37/20.00**  
GPA of the last 3 semesters: **17.39/20.00**

- **Hashtom Shahrivar Pre-University Center, Tehran, Iran**, Pre-university certificate in the field of Mathematics and Physics

**Sep. 2005 – Jul. 2006**

Overall GPA: **19.13/20.00**

- **Hazrat Zahra High school, Tehran, Iran**, High school Diploma in the field of Mathematics and Physics

**Sep. 2002 – Jul. 2005**

Overall GPA: **19.91/20.00**

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## HONORS

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- **2010**, among the top 10 undergraduate students of Control Engineering
- **2006, 2007, 2009** Faculty of engineering **Exceptional Talent** student for **4 semesters**, including the first semester, and 3 semesters as a result of obtaining a GPA of over 17/20 (A).
  - *Spring 2007 – GPA: 17.00/20.00*
  - *Spring 2009 – GPA: 17.79/20.00*
  - *Fall 2009 – GPA: 17.30/20.00*
- **2006**, Ranked **320<sup>th</sup>** among approximately 300000 participants in the nationwide university entrance exam in the field of Mathematics and Physics for BS degree, Tehran, Iran
- **2006**, Ranked **69<sup>th</sup>** among approximately 100000 participants in the nationwide university entrance exam in the field of Foreign Languages for BS degree, Tehran, Iran
- **2006**, Ranked **1721<sup>th</sup>** among approximately 40000 participants in the nationwide university entrance exam in the field of Arts for BS degree, Tehran, Iran
- **2005**, Qualified for the **final** stage of the national **Literature** Olympiad

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## ACADEMIC PROJECTS

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- **Ongoing project, Bachelor Thesis: “Optimal Portfolio Selection using Markowitz method and Genetic Algorithm and Comparison between the two mentioned methods”**, Fall 2010  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran

*This project focuses on the mathematical application of two computational methods in order to gain a better insight towards the general understanding of Stock Market. Up to now, all the research has been done on actual data from both Iranian and global Stock Market.*

*Advisor: Dr. Ashakn Rahimi-Kian, Associate Professor*

- **System design and simulation of an optimized state feedback control using full and reduced order observers**, Spring 2009, Advanced Control Systems  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran  
*Advisor: Dr. Ali Khaki Sedigh, Professor, visiting from Khaje Nasir Toosi University of technology*
- **System design and simulation of a Tracking and Regulation controller**, Spring 2009, Advanced Control Systems  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran  
*Advisor: Dr. Ali Khaki Sedigh, Professor*
- **Simulation and Analysis of Simple Power Circuit using PSCAD**, Spring 2010, Power Systems  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran

*Advisor: Dr. Hasan Monsef, Associate Professor*

- **Design and Implementation of "Speed and Position controller for a DC Motor"**, Spring 2010, Mechatronics  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran  
*Advisor: Dr. Farzad Rajaei-Salmasi, Associate Professor*
- **Design and Implementation of a Flute Player Robot**, Fall 2009, General Workshop  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran
- **P&ID and PFD analysis of an actual working plant, deaerator, designed by FAP co.**, Spring 2010, Instrumentation  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran  
*Advisor: Dr. Karim Salahshour. Visiting Associate Professor*
- **P&ID and PFD analysis of a boiler currently in use in the Methanol plant of Kharg Petrochemical Co.**, Spring 2010, Instrumentation  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran  
*Advisor: Dr. Karim Salahshour. Visiting Associate Professor*
- **Design of an Arithmetic Machine, using Quartus, and its implementation on FPGA**, Spring 2010, Digital Logic Lab  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran
- **Design and Implementation of a "Barcode Reader"**, Spring 2009, Microprocessors  
Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran  
*Advisor: Dr. Omid Fatemi, Assistant Professor*

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## WORK EXPERIENCES

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- **Kharg Petrochemical Co., Department of Engineering, control and instrumentation**, Tehran, Iran  
Summer 2009

*Trainee - Work focus: Principles of system automation, computer simulation of operation and control of an industrial plant in electrical & pneumatic domains*

*University advisor: Dr. Parviz Jabbedar Maralani, Professor*

*Company web page: <http://www.khargpetrochemical.com/english/main.html>*

- **Niroo Research Institute**, Tehran, Iran, summer 2007.

*Trainee: assisted with collecting and gathering the required Information*

*Company web page: <http://www.nri.ac.ir/default.aspx?lng=en>*

- **Tutoring**

- Mathematics

- Foreign Languages (French and Italian)
- **Fan Azmayan Pooyandeh (FAP) Co.,** Engineering, Procurement & Construction Company, Tehran, Iran  
*Studying the industrial operation of a “deaerator” from the Instrumentation point of view, the company being the first all-Iranian to construct such product*  
  
*Company web page: <http://www.fapdec.org/>*
- **“Lessons in Cinema”,** Tehran, Iran, winter 2009.  
  
*Participation as trainee in a student-oriented audio-visual Program addressed to Art University students*

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## TECHNICAL COMPETENCES

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- **Mathematical & Engineering Software:** MATLAB, PSpice, Modelsim, Quartus, PSCAD  
*As a result of being a control engineering student, I have achieved considerable ability to work also with SIMULINK in the MATLAB environment*
- **Instrumentation Software:** INTTools, WinCC  
*Thanks to my internship, I got familiar with a few examples of industrial software which are actually in use in Companies*
- **Microsoft Office** (Word, Excel, PowerPoint, One Note)
- **Windows environment** (XP, Vista, 7) and **Internet Research**
- **General Knowledge of some programming and hardware description languages,** including Verilog and Assembly

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## LANGUAGES

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- **Persian:** Native Language
- **English :** Fluent  
*Second Language, started when 10, previously holder of FCE and CAE certificates*  
*TOEFL exam score: 109*  
*Reading: 28, Listening: 30, Speaking: 24, Writing: 27*
- **French:** Fluent  
*B2 level of the French language, active student of the Cultural, Scientific and Co-operation Department of Embassy of France in Tehran, B2 being the highest course available to students*
- **Italian :** Proficient  
*Certificate of B1 level of the Italian language by Embassy of Italy in Tehran*
- **German :** Partial Knowledge  
*Currently studying in the Goethe Institute in Tehran in A2 level*
- **Arabic :** Familiar  
*High-school knowledge in addition to the similarities with Persian*

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## EXTRACURRICULAR INTERESTS

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*The history, art and analysis of Cinema*

*Political and Cultural Geography*

*Writing poems, essays, compositions and film criticisms in Persian, English and French*

*Watching football matches*

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## REFERENCES

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- **Dr. Ali Khaki-Sedigh**

Professor, Faculty of Electrical and Computer Engineering

K. N. Toosi University of Technology

Email address: [sedigh@kntu.ac.ir](mailto:sedigh@kntu.ac.ir)

Web page: <http://saba.kntu.ac.ir/eecd/Khakisedigh/>

- **Dr. Farzad Rajaei-Salmasi**

Associate Professor, Faculty of Electrical and Computer Engineering

University of Tehran

Email address: [frajaei@ut.ac.ir](mailto:frajaei@ut.ac.ir)

Web page: <http://ece.ut.ac.ir/faculty/Rajaei/>

- **Dr. Dara Moazzami**

Professor, Faculty of Engineering

University of Tehran

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Web page: <http://eng.ut.ac.ir/Fa/SCI/moazzami>

- **Dr. Ashkan Rahimi Kian**

Associate Professor, Faculty of Electrical and Computer Engineering

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Further Information and Proofs Are Available Upon Request