

# Behnam VAKILI



## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Tehran, Iran | 16 February 1992  
ADDRESS: No.3, Block 12, Saheb Zaman St, Tehranpars, Tehran, Iran  
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## EDUCATION

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FEBRUARY 2018 Master of Science in CONTROL SYSTEM ENGINEERING(COURSE BASED),  
**Iran University of Science and Technology**, Tehran, Iran.  
Seminar: "A Review on Loop Control Performance Assessment Techniques"  
| Advisor: Dr. Javad POSHTAN  
Iran University of Science and Technology had been named the best university  
in Iran by the Times Higher Education in 2016 - ranked 401-500 overall.

SEPTEMBER 2015 Bachelor of Science in ELECTRICAL ENGINEERING (Power Electrics),  
**University of Tehran**, Tehran, Iran.  
Thesis: "A Study and Simulation on the Effect of STATCOM on Transient  
Stability for IEEE 14 Bus Test System "  
| Advisor: Prof. SAEED AFSHAR NIA  
University of Tehran is the oldest, largest and most prestigious university  
of Iran.

## WORK EXPERIENCE

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MARCH 2018 - PRESENT	<p>Computer Programmer at ZARRIN, Tehran <i>Jewelry Accounting Software Producer</i></p> <p>Full Stack Web Development: Creating a website to buy jewelry online, using HTML/CSS, PHP, MySQL, JQuery and JS. Integrate an API for SMS capability.</p> <p>Software Development: Developing user interface of a desktop app with Java and JavaFx.</p>
SEPTEMBER 2017 - FEBRUARY 2018	<p>Researcher at AMIN RAAI, Tehran <i>Security Assessment Tools Vulnerability Tester</i></p> <p>Member of a team that developed a security and vulnerability analysis guidelines for test and set up laboratory equipment in FAHAM(National Smart Metering Program in Iran).</p> <p>Supervisor: <a href="#">TINA TAVIZI</a></p>

## HONORS AND AWARDS

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- AUGUST 2010    **Ranked 102<sup>nd</sup>** among more than **350,000** participants of “Nationwide Entrance Exam of Public Universities” (Konkour).
- APRIL 2009    Acceptance in **National Mathematical Olympiad**, Tehran, Iran.
- JUN 2009      **Ranked 1<sup>st</sup>** in Shariati high school, Tehran, Iran.

## AREAS OF RESEARCH INTERESTS

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- **Machine Learning**
- **Data Science**
- **Deep Learning**

## SELECTED ACADEMIC PROJECTS

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- 2017    Simulation of a proportional-integral kalman filter for discrete time systems with unknown input, as a course project for **Estimation Theory**.
- 2017    Simulation and comparison between fuzzy clustering algorithm and hard clustering algorithm, as a course project for **Pattern Recognition**.
- 2016    Simulation of a Fuzzy gain scheduling for PID controller; application to inverted pendulum balancing, as a course project for **Fuzzy Control**.
- 2016    Writing a report to review path planning algorithms for mobile robots, as a course project for **Mechatronics II**.
- 2016    Simulation of an adaptive unscented kalman filter with multiple fading factors for pico satellite attitude estimation, as a course project for **Stochastic Control**.
- 2015    Design and programming a LQR controller for a Unicycle Robot, as a course project for **Modern Control**.
- 2015    Modeling and simulating and comparing different methods for PID controller in a binary distillation column, as a course project for **Industrial Control**.
- 2014    Design and implementation of a line follower robot, as a course project for **Electrical Workshop**.
- 2014    Developing several projects, among them “Digital Oscilloscope”, using Quartus II and ModelSim and implementing it on FPGA, **Logic Design** and its lab.
- 2013    Design and implementation of a RFID Card Reader, **AVR Microprocessors**.
- 2013    Simulation of power transformers (considering the nonlinear effects) using MATLAB, as a course project for **Electrical Machines II**.
- 2013    Simulation of synchronous and asynchronous motors using MATLAB, as a course project for **Electrical Machines I**.
- 2012    Several projects using MATLAB, including topics like modeling, simulation, controlling methods and etc. (either in Simulink or as a m-file), **Linear Control**.
- 2011    Designing and Implementing a Tesla Coil in High Voltage Laboratory, University of Tehran.

## GRADES

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**M.Sc.(GPA:15.18/20):**

- Advanced Engineering Mathematics, Dr Poshtan(17.5/20)
- System Identification, Dr Poshtan(14.5/20)
- Mechatronics , Dr Shahri(20/20- 1<sup>st</sup> Rank)
- Fuzzy Control, Dr Farrokhi(15/20)
- Statistical Pattern Recognition, Dr Daliri(14.5/20)
- Advanced Process Control, Dr Smaeilzadeh(14/20)
- Stochastic Control Systems, Dr Mousavi Mashhadi(13.75/20)
- Renewable Energies, Dr Kalantar(15/20)

**B.Sc.(GPA:13.93/20):**

- Electromagnetics, Dr.Mohammad Taheri (17/20- 1<sup>st</sup> Rank)
- Digital and Nonlinear Control Systems, Dr Hoseini(14.4/20)
- Electric Circuits 2, Dr Imaneini(17/20- 4<sup>th</sup> Rank)
- Industrial Electronics, Dr Imaneini(15.2/20)
- Electric Machines 1, Dr Lesani(17.25/20- 2<sup>nd</sup> Rank)
- High Voltage and Insulation, Dr Mohseni(16.25/20)
- Differential Equations, Dr Dehmolaian(19/20- 2<sup>nd</sup> Rank)

## TEACHING EXPERIENCE

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SPRING 2016	<b>Teacher Assistant of Engineering Mathematics</b> EE Department, Iran University of Science and Technology, Instructor: Dr. Poshtan.
SPRING 2015	<b>Teacher Assistant of Electrical Circuit II</b> ECE Department, University of Tehran, Instructor: Dr. Iman Einie.
FALL 2014	<b>Teacher Assistant of Electrical machine II</b> ECE Department, University of Tehran, Instructor: Dr. Lesani.
SPRING 2014	<b>Lab Instructor of Circuit Lab</b> ECE Department, University of Tehran, Instructor: Dr.Shaygani Akmal.
2011 - 2017	Teaching basic <b>math and Calculus</b> for high school students. Editor and corrector in mathematical field in two of the greatest publication centers in Iran (Kanoon – GAJ).

## COMPUTER SKILLS

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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.
Programming Languages:	Java, Python, Javascript, PHP, MySQL, HTML/CSS, C++ Thanks to my current job, I got familiar with a few of programming languages which are in use in vast areas.
Basic Skills:	LINUX, L <sup>A</sup> T <sub>E</sub> X, Microsoft Office

## OTHER

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2014	<b>IEEE Iran Section Certificate: Basic Programming of PLCs.</b>
2013 - 2014	<b>Member of IEEE Student Branch of University of Tehran.</b>

## LANGUAGES

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ENGLISH: Fluent    TOEFL iBT: 93 (R26, L27, S20, W20)  
PERSIAN: Native  
TURKISH: Fair  
ARABIC: Fair

## INTERESTS AND ACTIVITIES

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Technology, Programming  
Football, Travelling

## REFERENCES

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|-----------------------------|---|
| DR. JAVAD POSHTAN           | School of Electrical Engineering<br>Iran University of Science and Technology<br>Title: <b>Professor</b><br>Tel: +98(21) 73225679<br>Email: jposhtan@iust.ac.ir               |
| DR. HOSSEIN IMANEINI        | School of Electrical and Computer Engineering<br>University of Tehran, Tehran, Iran<br>Title: <b>Assistant Professor</b><br>Tel: +98(21) 61114962<br>Email: imaneini@ut.ac.ir |
| DR. ALIREZA MOHAMMAD SHAHRI | School of Electrical Engineering<br>Iran University of Science and Technology<br>Title: <b>Assistant Professor</b><br>Tel: +98(21) 77225717<br>Email: shahri@iust.ac.ir       |
| DR. MAHMOUD MOHAMMAD TAHERI | School of Electrical and Computer Engineering<br>University of Tehran, Tehran, Iran<br>Title: <b>Assistant Professor</b><br>Tel: +98(21) 82084915<br>Email: mtaheri@ut.ac.ir  |