

AMIRMOHAMMAD RADMEHR

PERSONAL DATA

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EDUCATION

2016 - Present B.Sc. in Electrical Engineering (CONTROL)
University of Tehran, (*ranked 1st top university in Iran according to 2020 US news ranking*)

- Overall GPA: 3.1/4.0 | Major GPA: 3.64/4.0
- B.Sc. Thesis Title : [Animatronic Eye Mechanism of a Humanoid Robot](#)
- B.Sc. Thesis Supervisor: Dr. Mehdi Tale Masouleh

HONORS AND AWARDS

2016 Ranked within the top 0.2% among more than 160000 participants in Iranian university entrance exam in the Mathematics and Physics discipline

2016 Received national undergraduate full scholarships

RESEARCH INTERESTS

- Machine Learning
- Automation
- Adaptive Control
- Robot Motion
- Internet of Things
- Signal/Image Processing

ACADEMIC PROJECTS

- **Ball and Plate** - *Mechatronics*
Fabricated a robot that stabilizes a nimble ball in center of a plate
ROS, Python-OpenCV, MATLAB-SimMechanics, SolidWorks, Vision, PID
- **Automating Production Process** - *Industrial Automation*
Implemented a production line and Then programmed it to automate the process
TIA Portal, PLCsim, FactoryIO, Automation
- **Route Optimization** - *Operation Research*
Implemented a set of locations in map and used Python prgramming to find the least time consuming path
Python, Google Map, Linear Algebra
- **Clapper Switch** - *Microcontroler*
Fabricated a switch that responds to different way of clapping
CodeVision, ATmega16, Altium Designer, Smart Home,
- **Tachometer** - *Electrical Machines I Lab*
Designed a tachometer using Arduino Uno, DC motor and other eletrical components
Arduino Uno, Arduino IDE
- **Line Following Robot** - *General Workshop*
Fabricated an automated guided robot to follow a line with various disturbance
Altium Designer, CodeVision, ATmega32

SELECTED COURSES

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|-----------------------------------|----------------------------------|------------------------------------|
| • Artificial Neural Network 17/20 | • Robotics 17/20 | • Digital Control Systems 18.75/20 |
| • Mechatronics 20/20 | • Linear Control Systems 16.1/20 | • Instrumentation 17/20 |
| • Modern Control 15.5/20 | • Industrial Automation 17.5/20 | • Microprocessor 20/20 |
| • Linear Algebra 17.4/20 | • Operation Research 18/20 | |

WORK EXPERIENCE

JULY-SEPTEMBER 2019	Intern at Electrical Machine Laboratory, University of Tehran <i>Microgrid Implementation</i> Designed a PID controller for a coupled motor-generator which was an element of a bigger power network
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TEACHING EXPERIENCE

FALL 2020	Modern Control DR. HAMED KEBRAIEI Responsibilities: Homework developer/grader
FALL 2020	Industrial Control DR. AHMAD KALHOR Responsibilities: Content creator, Homework developer/grader
FALL 2020	Instrumentation DR. MOHAMMADREZA NAYERI Responsibilities: Homework grader
FALL 2020	Operation Research DR. MOHAMMAD SHOKRI Responsibilities: Content Creator, Home work developer/grader
SPRING 2020	Mechatronics DR. MEHDI TALE MASOULEH Responsibilities: Home work developer/grader

PROFESSIONAL SKILLS

PROGRAMMING LANGUAGE	• Python	• MATLAB	• C/C++
HARDWARE	• ARM MC	• AVR	• PLC
SOFTWARE	• ROS • Altium Designer • \LaTeX	• SolidWorks • NI Multisim • Microsoft Office	• Simulink • TIA Portal • Ubuntu

LANGUAGES

ENGLISH: Fluent	TOEFL iBT: 106 R28,L30,S24,W24	GRE: VR 142, QR 167, AW 4.0	FARSI: Native	GERMAN: Basic knowledge
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