

AMIN SEYEDZADEH

Sharif University of Technology, Azadi Avenue, Tehran, Iran

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Education

Bachelor of Science Mechanical Engineering and Computer Science (Minor Curriculum) Sharif University of Technology, Tehran, Iran Cumulative GPA: 16.0 out of 20 (3.29 out of 4)	Summer 2016 - Present
High School Diploma Mathematics and Physics Modarres High School, Tehran, Iran GPA: 19.71 out of 20 (4 out of 4)	Sep 2011 – July 2016

Experience

Intern <u>Dr. Robot Co. (Contact Information)</u> Supervisor: Dr. Alireza Taheri (taheri@mech.sharif.edu) Worked as a member of a team, designing a game on virtual reality for improving children's English pronunciation. My job was to help to design the game using Unity3D, also preparing audios using gTTS library of Python.	May – Sep 2018
Research Assistant <u>CEDRA (Contact Information)</u> Director: Dr. Ali Meghdari (meghdari@sharif.edu) Social & Cognitive Research Robotics Laboratory, branch of Center of Excellence in Design, Robotics, and Automation (CEDRA).	Apr 2018 – Present
Research Assistant <u>ESMML (Contact Information)</u> Director: Dr. Amir Nourani (nourani@sharif.edu) ESMML abbreviation for Experimental Solid Mechanics and Manufacturing Lab.	Aug 2018 – Present
High School Teacher <u>Modarres High School (Contact Information)</u> Supervisor: Mr. Ehsan Changi (ehsan.changi@yahoo.com) Teaching part time at secondary school, and privately, math and physics courses.	Summer 2016 – Present

Volunteer Works

Writer of "**NAMEH Magazine**" (ISSN 1561-9389) (The Journal of Mechanical Engineering Department)
Member of Student Association "**Mental Health Collaborators**" (Branch of Sharif University of Technology)

Research Interests

- Robotics (Social, Haptic, Microscale)
- Human-Robot and Human-Computer Interaction
- Artificial Intelligence and Machine Learning
- Virtual, Augmented and Mixed Reality
- Finite Element Method for Mechanical Analysis

Language Proficiency

English:	Pre-Advanced (Preparing for TOEFL exam)
Persian:	Native

Skills

Programming Language Python, Java

Mechanical Design and Simulink
Virtual, Augmented and Mixed Reality
Robots
Statistics
Developing
Electrical Design and Tools
Documentation and Presentation
Operating System

SOLIDWORKS
Unity3D, HTC vive VR System, SteamVR, Microsoft Kinect Sensor
Choregraphe and Nao Robots
Minitab, Microsoft Excel
Microsoft Visual Studio, Jet Brains PyCharm, IntelliJ IDEA, eclipse
Proteus, Arduino
Microsoft Word, Microsoft PowerPoint, Prezi
Windows, Linux (Ubuntu), Robot Operating System (ROS)

Projects

Brainstorming with Robots

Supervisor: Dr. Alireza Taheri

Investigating the Effect of the Presence of Robots in Brainstorming Thinking Sessions (Nao robots)

Improving the mechanical properties of Poly Nanofibers applicable for skin burn dressing

Supervisor: Dr. Amir Nourani

Advisor: Dr. Mahmood Chizari (chizari@sharif.edu)

Design and manufacture of Nano-fiber manufacturing machine for producing wound coatings and testing mechanical properties of Nano-fibers.

Swimming Robot

Supervisor: Dr. Hodjat Pendar (hpendar@vt.edu)

Design and build fish shaped robot to achieve the best kind of movement using machine learning and deep learning

VRALL (Virtual Reality Assisted Language Learning)

Supervisor: Dr. Alireza Taheri

Evaluating the effect of using virtual reality technology on the level of language learning, for children aged 6 to 12 years.

Personality

MBTI Test: INFJ (Introversion, Intuition, Feeling, Judgment)


Archetype Test: Hephaestus (The god of fire, metalworking, stone masonry and the art of sculpture)

Habits: Movie and Series, Gym, Swimming, Climbing, Reading Persian novel and poetry, Participate in philosophical debates

References

Prof. Ali Meghdari

Full Professor, Director of CEDRA, Sharif University of Technology

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Dr. Amir Nourani

Assistant Professor, Sharif University of Technology

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Dr. Alireza Taheri

Assistant Professor, Technical Director of Social and Cognitive Robotics Lab, Sharif University of Technology

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