

Aslan Noorghasemi



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EDUCATION

Aug. 2023 – Current	Carnegie Mellon University, Pittsburgh, Pennsylvania Ph.D. Mechanical Engineering
Sept. 2011 – Sept. 2016	Sharif University of Technology, Tehran, Iran B.Sc. in Mechanical Engineering, Minor in Economics
Sept. 2007 – June 2011	National Organization for Development of Exceptional Talents (NODET), Tabriz, Iran High School Diploma in Mathematics and Physics

HONORS AND AWARDS

2016	2nd place award in the event on Hyperidea of the Internet of Things (IoT), Sharif University of Technology, Tehran, Iran (blog)
2013	3rd place award in the 2 nd National Competition of Toy Design and Manufacture, Sharif University of Technology, Tehran, Iran (blog)
2011	Bronze medalist at the 5 th International Olympiad on Astronomy and Astrophysics (IOAA), Katowice, Poland (official results) (blog)
2011	Silver medalist at the Group Competition of 5 th International Olympiad on Astronomy and Astrophysics (IOAA), Katowice, Poland (official results) (blog)
2010	Gold medalist at the 6 th National Astronomy and Astrophysics Olympiad, Young Scholars Club (YSC), Tehran, Iran (blog)

RESEARCH EXPERIENCE

Dec. 2015 – July 2016	Sharif University of Technology, Department of Mechanical Engineering, Tehran, Iran B.Sc. Thesis, “Designing and Prototyping A Smart Irrigation System Based on Soil Status Assessment” This project also won the 2nd place award at the Hyperidea of the Internet of Things (IoT) Event (blog) - Keywords: IoT, Prediction, Time Series, SARIMA, SARMA, Soil Mechanics
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INTERNSHIP

June 2015 – Sept. 2015	Research and Develop (R&D) Engineer at Donar Industrial Group, Tabriz, Iran worked on collision simulation
June 2014 – Aug. 2014	Research and Develop (R&D) Engineer at Leader Industrial Group, Tabriz, Iran worked on system failure modeling

WORK EXPERIENCE

March 2022 – July 2023	Part-Time Data Analyst at BNDBS IoT Hosting Company, Tabriz, Iran developing APIs for data analysis purposes
Dec. 2018 – Feb. 2022	Research and Develop (R&D) Expert at Donar Industrial Group, Tabriz, Iran worked on design optimization, failure simulation, and data analysis
Nov. 2016 – Nov. 2017	Quality Control (QC) Engineer at Donar Industrial Group, Tabriz, Iran monitoring operations outputs based on guidelines
2010 – 2013	Part-Time Tutor at several high schools in Tehran, Tabriz, and Urmia, Iran helping students on the topics of astrophysics, spherical astronomy, and data analysis

SELECTED COURSES

B.Sc.	(MECH) Product Design and Development	(MECH) Environmental Pollution
	(ECON) Innovation Management	(ECON) Game Theory
	(MATH) Time Series	(ECON) Econometrics

TRAININGS

2021	Advanced Django: Mastering Django and Django Rest Framework Specialization from Coursera
2020	Machine Learning Specialization (by Andrew Ng) from Coursera
2019	Python Programming Certificate from Iran Technical and Vocational Training Organization (TVTO)

COMPUTER SKILLS

Programming Languages	Python, C/C++, R, MATLAB, HTML/CSS; familiar with Git, Object-Oriented Programming (OOP), Web Development, Rest API, and IoT
Familiar Python Libraries	NumPy, Networkx, SciPy, scikit-learn, Matplotlib, Django, PyQt
3D Design Software	Rhino, KeyShot
Other Design Software	LaTeX, Presonus Studio One, Adobe (After Effects, Premiere, Photoshop, Illustrator)

LANGUAGES

English (advanced) // TOEFL iBT (2021): 108/120 (blog), GRE (2021): V:155/170 Q:164/170 W:4.5/6 (blog)
Persian & Azeri (native)
German (intermediate)
Spanish (beginner) // DELE (2022): Nivel A1, 98/100

HOBBIES AND INTERESTS

Music	playing piano and melodica, had a number of courses about film music, particularly interested in mathematical and computational approaches to the music theory
Photography, Videography	interested in social documentary and astrophotography (gallery), top artwork in the 7th National Photography Festival of Firoozeh, Tabriz, Iran (blog)
Biology	interested in domestic cats and houseplants, attended workshops about mycology (here), agriculture, and GMO (here)
Sports	fitness, inline skating, biking (including bicycle tourism), hiking, and camping