
ALI SAYED SALEHI

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Mechanical Engineer

Research Interest

- Energy systems
- Computational fluid dynamics (CFD)
- Net-zero buildings
- Solar thermal systems
- Biological fluid mechanics
- Cardiovascular fluid dynamic

Education

- 9/2014 - 8/2019 B.Sc. in Mechanical Engineering
University of Isfahan, Dpt. of Mechanical Engineering, Isfahan, Iran
- CGPA: 17.21/20 (3.6/4) via 140 credits
 - Last two years GPA: 18.26/20 (3.8/4) via 65 credits
 - Ranked 1st in department
- 9/2010 - 6/2014 High school Diploma in Mathematics and Physics
Shahid Ejei High School, Isfahan, Iran
- Under the supervision of the National Organization for the Development of Exceptional Talents (NODET)
 - GPA: 19.66/20

Presentations and Publications

- May, 2020 Oral presentation and paper publication
The 28th Annual International Conference of Iranian Society of Mechanical Engineers (peer reviewed conference)
- **Sayed Salehi, A.**, Baniasadi, E. (2020, May). *Modeling and simulation of a solar absorption cooling system for a university building*. Paper presented at the The 28th Annual International Conference of Iranian Society of Mechanical Engineers, Tehran, Iran. Retrieved from https://www.civilica.com/Paper-ISME28-ISME28_007.html -> [PDF]

Work experience

- 1/2019 - 5/2019 Design engineer
Ehya Sanat Faal, Isfahan, Iran
- Calculated heating and cooling loads for commercial and residential buildings.
 - Helped in recommending HVAC equipment for residential buildings.
 - Helped in managing various projects via Microsoft Project.
- 7/2018 - 8/2019 Head of Organization
University of Isfahan's scientific association of mechanical engineering, Isfahan, Iran
- Performed unpaid volunteer work to:
- Organize and conduct scientific conferences and field trips.
 - Arrange workshops and extra courses for interested students.
 - Act as a link between the student body and university officials.

Computer Skills

Mechanical Engineering Softwares:

TRNSYS, ANSYS (thermal, fluid, and solid mechanics workbenches), Gambit, AutoCAD, **MATLAB**, Engineering Equation Solver (EES), Carrier HAP, **SolidWorks**, Autodesk Inventor, Refrig, Abaqus

Programming and markup languages:

Python (JupyterLab, Pandas, NumPy, **Matplotlib**, **SciPy**) , **Fortran 95**, HTML, **CSS**

Others:

Microsoft Project, **LaTeX**, Microsoft Office (Word, Excel, PowerPoint), MathType, Google Docs

Language and Test Scores

- Persian: native
- Arabic: familiar
- English: expert

TOEFL:

Reading: 30 listening: 28 Speaking: 25 Writing: 27

GRE General:

Quantitative reasoning: Verbal Reasoning: Analytical Writing Assessment:

