

Behrad Mansouri

Amirkabir University of Tech. (AUT), 424 Hafez Ave., Tehran, Iran

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[Github](#)

Interests

- Thermodynamics
- Fluid Mechanics
- Heat Transfer

Education

Amirkabir University of Technology (Tehran Polytechnic) September 2019 - present

B.Sc., Mechanical Engineering

GPA: **3.55** / 4

Supervisor: Prof. Mohsen Bahrami

Allameh Tabatabaei High School September 2016 - June 2019

Diploma in Mathematics and Physics

GPA: 19.32/ 20

Allameh Helli NODET Middle School September 2013 - June 2016

Diploma in Mathematics and Physics

Technical Skills

Programming and Scripting Languages

Python , C++, Matlab

Engineering Software

EES, Catia

Language Skills

Persian: Native

English: Fluent

German: Beginner

Honors

- Achieved top **0.4%** place among all applicants of the [Nationwide University Entrance Exam](#) for B.Sc. in Mathematics and Engineering 2019
- Admitted into the Amirkabir University of Technology which is ranked second among universities in Iran 2019
- Admitted in the First stage Nation-wide Mathematics contest of "Olympiad" 2017
- Accepted in the National NODET Middle School Entrance Exam, where less than 1% of the applicants were eligible 2013

Teaching Experience

Thermodynamics (I) Fall 2021

Teaching Assistant - Instructor: Dr. Hashem Moradi

Notable Coursework projects

Fuels & Combustion Spring 2022

Preliminary design of a gas turbine combustor using EES [Github](#)

Instructor: Dr. Ehsan Amani

Heat Transfer (I) Spring 2022

Heat transfer analysis of a falling hollow sphere [Github](#)

Generalized solution for variable conductivity transient conduction [Github](#)

Instructor: Dr. Behzad Baghapour

Selected Courses

Thermodynamics (I): A+

Thermodynamics (II): A

Fluid Mechanics (I): A

Heat Transfer (I): A+

Fuels & Combustion: A

Engineering Mathematics: A+

References

Dr. Mohsen Bahrami - Professor

- Department of Mechanical Engineering, Amirkabir University of Technology

- mbahrami@aut.ac.ir

Dr. Hashem Moradi - Lecturer

- Department of Mechanical Engineering, Amirkabir University of Technology

- h.moradikh@aut.ac.ir