

# Maede Momeni

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## Research Interests

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- Biomechanics
- Nano-Micro Fluidics
- Advanced Materials and Biomaterials
- Turbomachinery and Gas Turbine

## Education

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- **Sharif University of Technology**  
School of Mechanical Engineering  
Tehran,Iran  
M.sc.2016-present  
total average : 17.98
- **Isfahan University of Technology**  
Department of Mechanical Engineering  
Isfahan,Iran  
B.sc.2011-2015  
total average : 16.7

## Projects & Research Experience

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- Designing of hermetic heater and suggesting the optimization solutions (using EES software)
- Studying of metallurgical and mechanical properties of turbine blades
- Analysing Energy and Exergy of Hampson-Linde cycle
- Studying on Double cone vacuume mixer and its mechanical components
- Studying on Solar Desalination System mechanisms and modifying the plan of multiple active desalination (using MATLAB software)
- Recommending a proposal (suggested plan) for desalination with using solar tower
- Evaluating of the effect of changes in diameter on pressure drop in a pipe crossing
- Reviewing features and abilities of some HVAC softwares
- Analysing of Regenerators and Recuperators

## Computer Skills

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- **Programming language:** C
- **Engineering software:** Comsol, Catia, CFX, OpenFoam, Scilab
- **Software:** Microsoft Office, EES

## Project Subject

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- Design and optimization of active and passive micromixers by putting obstacles  
Supervisor: Dr. Mohammad RezaTavakoli

## Conferences

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- Numerical investigation of the influence of angular velocity and non-Newtonian fluid behavior at active micromixer  
24<sup>th</sup> Annual International Conference on Mechanical Engineering- ISME2016

## Training Experience

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- Pars electrical transmission equipment company

## Extra-Curricular activities

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- A member of the design of Mobility Scooter Team at Isfahan University of Technology