

Roozbeh Danaei

Graduate Student School of Mechanical and Materials Engineering, Voiland College of Engineering and Architecture, Washington State University	Primary Email:Roozbeh.danaei@wsu.edu Secondary Email:r.danaee@gmail.com Cell:+1(425)463-9053 Address: 353 ETRL,355 Spokane St, Pullman, Washington 99163,USA
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Education

2015-present	M.Sc. Mechanical Engineering Washington State University. Field of research: Energy Harvesting, Thermoelectric Materials, Advance manufacturing Advisor:Dr.Rahul Panat
2009-2014	B.Sc. Mechanical Engineering Sharif university of Technology Thesis: “Deposition of Nano-Paticles in porous media in Non-Newtonian environment” Advisor: Dr. Ali Moosavi

Research Experience

2015-present	Graduate Research - Design and Nanofabrication of electrical generator based on Thermoelectric Materials (TEG)
2013-2014	Undergraduate Thesis - Carried out research on deposition of nanoparticles in Porous media in Non-Newtonian environment - Simulation of deposition in Eulerian approach by User defined function in Fluent ANSYS
2012-2013	-Analysis of differences between heat transfer`s coefficient when Snail plates were used in heat exchanger - Carried out investigations about economic benefits of this innovative Patterns for heat exchangers
2012-2013	Design a closed-loop system to test the compressor`s performance for TURBINE MACHINE Co,

Publication

12th ISME conference May 2015	R.danaei, H ganji, A. Moosavi. “Micro-Scale simulation of particle depositions in porous media in Non-Newtonian environment”
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Teaching experience

Teaching assistant

2015-present

“Fundamentals of Thermodynamics” (ME 301) Dr. Dustin McLarty
Undergraduate course- School of Mechanical and Materials
Engineering-Washington State University

Work Experience

Summer 2011-2012

internship

Participate in maintenance group in IRAN TIRE Co, one of the foremost
tire producing company in Iran.
Supervisor: Dr. Saadat

2012-2013

Part-time Job

Work in TURBINE MACHINERY Co, One of the pivotal companies in
Designing and maintenance of Turbines and compressors in Iran

Honors and Awards

2009

ranked 15th nationally among approximately 300,000 participants
in the national university admission exam (Concour)

2007

finalist in the national physics Olympiad in Iran

Skills

- Programming:
C++, MATLAB
- Mapping and Modeling:
AutoCAD, Solid Works, CATIA
- Finite Element Analysis:
ANSYS, ABAQUS, FLUENT, COMSOL
- Data Analyzing:
MAPLE, Microsoft office Excel
- Language:
Fluent in Persian, English and familiar with Arabic