

Curriculum Vitae

Ahmad Kazemi Fard



Date of Birth: 1974

Nationality: Iranian

E-Mail: a.kazemifard@gmail.com

Cell phone: 09127389806

Address: Payambare Sharghi Ave, Ashrafie Esfahani Highway, Tehran, Iran

EDUCATION

- 2012-2018 **Ph.D.**, Mechanical Engineering, Energy Conversion
Tarbiat Modares University, Tehran, Iran
Thesis: A Parametric Study of the Effect of Injection Characteristics and Initial Conditions for Complete Evaporation of Fuel Droplets Without Flame Formation in the Premix Tube
- 1997-2000 **M.Sc.**, Mechanical Engineering, Energy Conversion
Amirkabir University of Technology, Tehran, Iran
Thesis: Slip Factor in Squirrel Cage Fan
- 1992-1997 **B.Sc.**, Mechanical Engineering, Heat & Fluid
Shiraz University, Shiraz, Iran
Thesis: Calculation of Forces Action on Hovercraft due to Water Surface Waves

TEACHING EXPERIENCE

- 2018-2019 **Buein Zahra Technical University**
Lecturer: Thermodynamics II (Department of Mechanical Engineering) /
Heat Transfer I (Department of Aerospace Engineering)
- 2001-2005 **Amirkabir University of Technology**
Lecturer: Thermodynamics I and II (Department of Marine Technology) /
Thermodynamics Lab (Department of Mechanical Engineering)

1998-2000 **Amirkabir University of Technology**
Teaching Assistant: Fluid Mechanics I, Heat Transfer I, Fluid Mechanics Lab.
(Department of Mechanical Engineering)

1995-1997 **Shiraz University**
Grader: Fluid Mechanics I, Heat Transfer I, Engineering Mathematics
(Department of Mechanical Engineering)

EXPERIENCE

2000- 2001 **National Petrochemical Company**
Senior Engineer: Rotating Machinery Shop Center in Khorasan
Petrochemical Complex
Maintenance and Repair Techniques of Machineries Including PM, PdM and CM

2001-2005 Senior Engineer in Following Companies:
Part-time **Saravel Company**
Performance Test Setup of Squirrel Cage Fans According to AMCA Standard

Part-time **Niroo Research Institute**
Design of Ice Storage Air Conditioning Systems

Part-time **Iran Industrial Pumps Company**
Acceptance Test Specification in Fire Fighting Systems According to NFPA20

Part-time **Kalay-e-pump Company**
Mechanical Design of One Centrifugal In-Line Pump According to API 610

2005-2006 **Heavy Duty Pumps and Water Turbine Manufacturing Company**
Senior Engineer: Hydraulic Design of Ten Type of API Centrifugal Pumps /
Prepare of Technical Proposals

2006-2008 **MAPNA Turbine Engineering and Manufacturing Company**
Senior Engineer: Preparing the Technical Proposals and Technical Reports /
Gas Turbine Performance tests / Predicting the performance curves for SGT5-
2000E, UGT25000 and THM1304-10 Gas Turbines

2008-2009 **Persian Gulf Star Oil Company (PGSOC) & Ressi Farayand Company**
Project Engineer: Purchasing the Temporary and Permanent Desalination Units
/ MC in Water Intake Project

- 2009-2013 **Energy Industries Engineering & Design (EIED)**
 Machinery Coordinator in following project: 200 Turbo Compressors MC - SSC Services for Supply & fabrication (Siemens Turbo Compressor SGT-600 and Sumy - Zoryia Turbo Compressor (UGT25000) / West Karoon Oil Fields Early Production Unit / TGTU of South Pars Gas Field Development (Phases 2 & 3) / South Pars Gas Field Development Project (Phases 20 & 21) / Tabriz Refinery Gasoline Production Plant / Hormoz Heavy Oil Refinery
- 2013-2016 **Iran Liquefied Natural Gas Company (ILC)**
 Head of Mechanical Engineering Department: Managing the Contractors and Vendors / Supervising Rotating Equipment including Process Compressors, Pumps and Blowers
- 2019-2020 **SOMIC engineering and management Company**
 Head of Mechanical Engineering Department: Managing the Contractors and Vendors / Supervising Rotating Equipment / Preparing Tenders Documents and Contracts
- 2020-2022 **Paravar Engineering Company**
 Head of Rotary Engineering Department: MC in Masjed Soleyman Petrochemical Plant project, Parsian Sepehr Refining project and Homa and Varavi compressor stations and Tabnak separation unit Project
- 2022-Present **Norahan Sanaye and PNS Companies (Joint-Venture)**
 Head of Rotary Engineering Department: Marun 3 Dehydration, Marun 5 & Ramshir Dehydration and Gas Compression and Pipeline EPCC Project

WORKSHOPS / TALKS

- 2017 **Talk:** “Pumps: Types and Applications”, Tarbiat Modares University
- 2016 **Organized:** One-day workshop on “Maintenance, condition monitoring, troubleshooting and repair of pumps”, ICME2016, Hormozgan University
- 2012 **Talk:** “Gas Turbine Power Generation Tech.”, Tarbiat Modares University
- 2003 **Talk:** “PIV and LDA Measurement Methods”, Tehran University

HONORS AND AWARDS

- 2001 **Alli Nasab Award**, Iranian Society of Mechanical Engineers

TECHNICAL SKILLS AND SOFTWARE EXPERTISE

Programming Languages: Fortran, C⁺⁺, Matlab

Codes: Open Foam, CFTurbo, CFX, Fluent, Gambit, Hysys, Catia, Autocad

API Standards: 610, 614, 616, 617, 618, 619, 674, 676, 682, 685, 692

ASME Performance Test Codes: PTC10, PTC22

Other Standards: NFPA20, ISO2314, BS848, ISO6976

CONFERENCE AND CONGRESS ATTENDANCE:

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| 2017 | ISME Conference | Tarbiat Modares University, Iran |
| 2008 | ASME Turbo Expo | Estrel Berlin Hotel, Germany |
| 2001 | ISME Conference | Guilan University, Iran |
| 1996 | ISME Conference | Shiraz University, Iran |

PUBLICATIONS

- 1- "A study of slip factor and velocity components at the rotor exit of forward-curved squirrel cage fans, using laser doppler anemometry", Proc. Instn Mech. Engrs, Part A: J. Power and Energy, 2001. DOI: 10.1243/0957650011538712
- 2- "Prediction of performance in squirrel cage fans", ISME, 2001 (in Persian).
- 3- "Design and manufacturing of an ice storage for air conditioning system" Niroo Research Institute, Report No.PENPT03 (in Persian).
- 4- "Combustion in the human body", Newsletter of Iranian Institute Combustion, 2013 (in Persian).
- 5- "Investigation of an isolated n-heptane droplet evaporation in high pressure nitrogen environment using Eulerian-Lagrangian approach", ISME, 2017.
- 6- "Investigation of the effect of spray fuel injection pattern on evaporation of droplets in the gas turbine pre-mixer", AJME, In press. DOI: 10.22060/MEJ.2018.14433.5859
- 7- "Correlations for evaporation history of moving droplets released into high pressure nitrogen cross-flow premixer", atomization and sprays, 2018. DOI: 10.1615/atomizspr.2018024885
- 8- "Auto-ignition of single n-heptane droplets in low temperature and high pressure air using Lagrangian-Eulerian approach", Proc. Instn Mech. Engrs, Part D: J. Automobile Engineering, In press. DOI: 10.1177/0954407018820783