Curriculum Vita

* Personal Information

Name : Roozbeh Vadi

Date of Birth : March 28,1984

Place of Birth : Tehran, Iran

Marital Status : Single

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# Education ,Thesis & Honors

* 2010- up to present time

Attending conjoint course of Shahid Beheshti university & NSTRI (Nuclear Science & Technology Research Institue) of AEOI (Atomic Energy Organization of iran) as a Ph.D. candidate with the major of Nulear Engineering in field of Reactor Design.

Address : End of North Karegar Ave., Tehran, Iran, P.O.Box : 14359-836

Honors : Obtaining first rank in Ph.D. entering Exam of aforemenioned conjoint course in Novembr 2010 and also obtaining first rank in Ph.D. entering Exam of Shahid Beheshti university in January 2010.

* 2008 - 2010

Recieved M.Sc. in the major of Nulear Engineering in field of Reactor Design from Shahid Beheshti university, Tehran, December 2010.

M.Sc. thesis title : Two & Three Dimensional Analysis of Gas Centrifuge Flow Field & Isotopes Separation with CFD Approach & Optimizing it on The Basis of Maximizing, System Separation Efficiency**.**

* 2003 - 2008

Recieved B.Sc. with the major of Mechanical Engineering in field of Heat & Fluid Transfer from Zanjan university, Zanjan, July, 2008.

B.Sc. thesis title : Analytical & Numerical Investigation of Generator's Cooling Fan Failure (& practical usage of this in investigating of General Electric Compamy's generator cooling fan failure of T240-370 model )

# Experiences & Research Projects

* Over one year (form Novembr 2010 till now) of cooperation as a scholar student with Reactor & Acceleretor Research Centr of NSTRI (AEOI) and have an active role in project of "complete analysis & simulation of ITER reactor" (it is in process of implementation.).
* Participating in a project, titled "Investigation of Transient Responses of Single Phase Shell & Tube Heat Exchanger" as an advising professor & three dimensional simulation of chosen heat exchanger's transient responses with Fluent software as benchmark of provided code for Edis company (implemented in march 2012).
* Almost two years of cooperation with "Powerplant Instrumetes Repair & Maintenance Company of Iran" including of six month as fulfillment of two traning course required for bachelor's degree, performing, B.D's thesis practical research and also implementing and participating in a few research project pertaining to Iran's powerpalnts. Among them are, participating in boiler simulation of "Shahid Rajaee" powerplant project in numerical simulation of torch combustion and implementing of a research project, titled " Investigation of air fluid effect on generator's cooling fan failure"(2007 & 2008).
* Cooperating with engine research center of ''Iran Khodro'' company in project of combustion simulation of Peugeot 206 atuomotive, in drawing and preparing dynamics mesh (Presented in summer 2007).

# Software & Language Skills

* Full proficiency in English (having TOFEL, CPE & CFE certificate) & average proficiency in French.
* Programming & mathematical Software : Full proficiency in Fortran & C language and Matlab software and average proficiency in C# language and Mathematica software.
* Engineering drawing & design software : Full proficiency in Autocad, Mechanical Desktop & Inventor software and average proficiency in Pro Engineer software and conducting basic calculations and computations pertaining to mechanical engineering with them.
* Numerical anlysis & simulation software for Fluid : Full proficiency in Ansys Fluent & Gambit and Ansys CFX software.
* Numerical anlysis & simulation software for Solid : Full proficiency in Ansys Mechanical & Simulia Abaqus software.
* CNC Programming (by the means of simulating manufacturing process) software : Full proficiency in Edge-cam software and average proficiency in Power-mill software.
* Neutronic numerical analysis software : Full proficiency in Citation, Wims, Parcs & Anisen codes and average proficiency in MCNP software and also familiarity with ENDF cross sections database & Njoy software.
* Proficiency in using software package specialized in specific engineering simulation : Aveva-Plant software for powerplant processes & cycle simulation, Aspen-Bjac software package for designing and analyzing wide range of heat exchangers in steady state situation, Carrier software for designing air conditioning systems.
* Graphical drawing & modification software : Proficiency in using CorelDraw & Photoshop software and also full proficiency in Microsoft Office software package.

# Scientific Publication

* A ratified national resaerch project titled " Investigation of air fluid effect on generator's cooling fan failure", December 2008.
* Two articles in specialized conference on rotating Equipment in oil and power industry, Tehran, Iran, October 2008, with titles of : 1. CFD analysis of flow around generator fan blade & failure causes 2. Investigation of critical speed & self excited vibrations effect on fan blades failure.
* An Article in 18th Iran's Nuclear conference, yazd, Iran, march 2012 : Flow Field Analysis in Centrifugal Force Field & Optimizing it on The Basis of Maximizing, System Separation Efficiency.