**10. RESUMES**
**Dr. Basharat Salim Rasool (PI)
Personal Information**

**Date of Birth                                                     :          01 April 1952**

**Parentage                                                         :           Late Ghulam Rasool Wani**

**Nationality                                                       :           INDIAN**

**Mailing Address:- P**.O.Box  800,King  Saud University,Riyadh, 11421,K S.A

**Phone :**-0096614676674,   **Mob.**00966501659117                                **FAX** 0096614676652

**E-Mail** basharat@ksu.edu.sa

**Educational Qualifications :**

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| **Degree** | **Year** | **University** |
| B.Sc. | 1969 - 1972 | University of Kashmir, Srinagar, Kashmir  |
| B.Sc. Engg. Aeronautical | 1972 - 1976 | Punjab University Chandigarh, India  |
| M.Tech. Aeronautical | 1976 - 1978 | Indian Institute of Technology, Kharagpur, India |
| Ph.D. Fluids Engg. | 1985 - 1990 | Indian Institute of Technology, Delhi, India |

**Work Experience:**

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| **Institute** | **Position** | **Duration** |
| N.I.T. Srinagar, India | Lecturer | 1978 - 1979 |
| Indian Institute of Technology, Delhi, India | SRA | 1-1980,4-80  |
| N.I.T. Srinagar, India. | Lecturer | 1980 - 1989 |
| Master of Engg. Prog. N.I.T. Srinagar, India | Assistant Professor | 1989 - 1993 |
| REGISTRAR N.I.T. Srinagar, India | Administrator. | 1991-1992 |
| Al-Fateh Center of Engg. Research, Tripoli, Libya | Scientist | 1993 - 1995 |
| Engineering Academy Tajoura,Libya | Assistant Professor | 1996 - 2000 |
| Dept. of Mech.l Engineering K.S.U Riyadh Saudi Arabia | Associate Professor | Sep 2000- |

**Adminstrative Experience**

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| **S.No** | **Type of  Job** | **Institute** | **Duration** |
| 1 | Registrar  | N.I.T. Srinagar, India  | 1991-1992 |
| 2 | Coordinator Water Resource Development Centre. | N.I.T. Srinagar, India  | 1989-1993 |
| 3 | Coordinator Master of Engg, Program | N.I.T. Srinagar, India  | 1989-1993 |
| 4 | Officer In-charge Examination | N.I.T. Srinagar, India  | 1992-1993 |
| 5. | Member Selection Committees | N.I.T. Srinagar, India  | 1989-1993 |
| 6. | Head of Department of Aerospace Engineering. | Engg. Academy, Tajoura, Libya | 1996-1999 |
| 7. | Coordinator Turbo- Machines Laboratory Dept of Mech. Engg,  | King Saud University, Riyadh, K.S.A | 2000-till date |

**Funded Research Projects Investigated:**

1. Design of Turbines for Micro hydel Projects,  J& K Government, India
2. Design of Turbo pumps, AlFateh  Centre of Engg, Research Libya.
3. Effect of Inlet Distortion on the Performance of Centrifugal Blower, Research Centre College of Engg, King Saud University Riyadh, K.S.A.
4. Flow Through Asymmetric Wide Angle Diffusers, Research Centre College of Engg. King Saud University Riyadh, K.S.A.
5. Desalination Through Use of Hydrodynamics [Condensation- Evaporation]- KSU-KSA.
6. Energy and Exergy Analysis of a Cogeneration Power and Desalination Plant;Project Number:  08. ENE 340-2
7. Performance Study of an Hybrid Building Cooling System using Solar air heater and Waste Energy Recovery. NPST project under progress from Jan2014

**List of Publications  (Total 30) (Recent List Below)**

1. B. Salim “Effect of Intra-componental Aerodynamic Interaction on the Performance of a Centrifugal Compressor”, 6Th Saudi Engineering Conference, 2002, Dehran, K.S.A.
2. B. Salim “Effect of Inlet Distortion on the Performance of Centrifugal Blower” 7Th Saudi Engineering Conference, 2007, Riyadh, K.S.A.
3. B. Salim “Effect of Inlet Duct Configurations on the Flow and Performance of a Centrifugal Compressor with Vane Less Diffuser” 7Th Saudi Engineering Conference, 2007, Riyadh, K.S.A.
4. B. Salim Effect of Intra-componental Aerodynamic Interaction on the Performance of a Centrifugal Compressor *Proc. IMechE, Part G: J. Aerospace Engineering*, 2009, **223**(G3) 245-255.
5. B. Salim Effect of Inlet Flow Distortion on the Performance of Centrifugal Blower, ICASTOR Journal of Engineering, Vol. 2, No. 3, May. 2009
6. Al-Zahrani, J.Orfi, Z. Al-Suhaibani, B. Salim, H. Al-Ansary "Thermodynamic Analysis of Reverse osmosis Desalination Unit with Energy Recovery System", Procedia Engineering, Volume 33, pp. 404-414, 2012
7. B. Salim and Mahir Es-Saheb 'Evaluation of Comparative Performance of Three Wind Turbine Rotors**'** Research Journal of Applied Sciences, Engineering and Technology, November 2012
8. A. Al Zahrani, **J. Orfi**, H. Al Ansary, B. Salim and Z. Al Suhaibani "Thermodynamic analysis of a cogeneration gas turbine and desalination plant", *Desalination and Water Treatment*, in Press, 2012.
9. Hawas,B, B.Salim, Ziyadh,S. “ Performance of a Centrifugal Slurry Pump” Research Journal of Applied Science ,Engineering and Technology. Accepted for publication in Vol 7, Issue 8 February, 2014,
10. B. Salim “Effect of geometrical parameters on the performance of wide angle diffusers” International journal of innovative research in science, engineering and technology, Vol. 2, Issue 9, Sept 2013
11. B. Salim, “ Performance of an axial cascade” Open Journal of Fluid Dynamics,Vol3, No.3, pp 191-197 Sept 2013
12. Effect of roof profiles on wind heat loss coefficient for roof top solar collectors in gulf region. Paper communicated to journal of wind engineering.

**M.E, Projects Supervised:**

1. Effect of inlet distortion on performance of centrifugal blower..
2. Flow in a Return Passage of a Turbo-machine.
3. Performance  of a Slurry Pump
4. **MEMBERSHIP OF SOCIETIES:**
5. **M**ember I.S.M.E     (India)
6. Member  I.E.F  (Libya)
7. Member  N.C.F.M  &  F.P  (India)

**SUBJECTS TAUGHT**

**Graduate Level**

(1)Advanced Fluid Mechanics I ( 2) Advanced Fluid Mechanics II ,(3) Boundary Layer Flow (4) Turbulent Fluid Flow  (5) Design of Experiments , (6) Radial Turbomachinery (7) Renewable Energy, (8)Pumps and Compressors

**UnderGraduate Level**

|  |  |
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| Mechanical Measurement  | Hydraulics and Fluid Mechanics |
| Thermal Engineering  for civil Engg. Std. | Gas Dynamics; Turbomachinery |
| Thermal Engineering  for Elect. Engg. Std | Instrumentation and Measurement |
| Thermal Engineering  for Indust. Engg. Std | Introduction to Aerospace Engineering |
| Thermodynamics | Flight Mechanics |
| Engineering Mechanics | Laboratory Courses in Low Speed Aerodynamics |
| Aerodynamics | Laboratory Courses in Fluid Mechanics  |
| High Speed Aerodynamics  | Laboratory Courses in High Speed Aerodynamics |

**Undergraduate Projects Supervised**

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| **AERODYNAMICS**1. Design of Smoke Tunnel
2. Design of Low Speed Closed Circuit Wind Tunnel
3. Fabrication of Multi-component Mechanical Wind Tunnel Balance
4. Testing and Calibration of Supersonic Wind Tunnel
5. Aerodynamic Interference Between a Missile and Launching Aircraft Wing
6. Effect of Missile Location and Inter-missile Distance on Aerodynamics Interference between a Missile and a Wing
7. Wing - tail Body Interference in a Missile
8. Measurement of Drag on submarine

**FLUID MECHANICS**1. Effect of Inlet Distortion on Flow through a Rectangular curved Duct
2. Effect of Inlet Distortion on Flow through a Circular Curved Duct
3. Performance of Asymmetric Rectangular Diffusers
4. Performance of Rectangular Diffusers
5. Performance of Wide Angle Diffusers
 | **TURBOMACHINERY**1. Effect of Inlet Distortion on the Performance of a Centrifugal Fan
2. Effect of Impeller Shape on the Performance of a Centrifugal Fan
3. Design of a Sewage Pump
4. Redesign of the Inlet of a Radial Water Pump
5. Design of Mini-Turbine
6. Design testing & Calibration of Cascade Tunnel
7. Design of Small prototype Turbine
8. Performance of Pelton Wheel Nozzle Performance of a Centrifugal Blower Aerodynamic Performance of a Linear Cascade
9. Effect of Inlet Duct Shapes on the Performance of a Centrifugal Blower
10. Effect of Inlet Duct Orientation on the Performance of a Centrifugal Blower
11. Design and Testing of a Wind Turbine.
12. Design and Testing of a Microhydel turbine.
13. Performance Testing of small Pelton Wheel
14. Design of a Solid Propellant Rocket Motor
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