

# CURRICULUM VITAE

## PERSONAL INFORMATION

Name Saad Jahangir  
Address Zusterlaan 148, 2611 MP, Delft, Netherlands  
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Date of birth 20-09-1989



## EDUCATION AND RESEARCH

Qualification **Ph.D.**, Fluid Mechanics  
Name of Department- Laboratory for Aero and Hydrodynamics (3ME-P&E), Delft University of  
University Technology, Delft, Netherlands  
Year 2015 – Present  
Thesis Title Characterization of cavitation during the closing of mechanical (heart) valve  
Description of research To characterize cavitation near closing mechanical (heart) valves using PIV, high-speed imaging, X-Rays and long-distance microscopy in a pulsatile flow loop.  
Supervisor Dr. Ir. Christian Poelma  
Funding 75% - CaFE ITN Project - Marie Skłodowska-Curie Innovative Training Network  
25% - Delft University of Technology

Qualification **M.Sc.**, Power (Mechanical) Engineering  
Name of Department- Department of Aerodynamics and Fluid Mechanics, Brandenburg University of  
University Technology, Cottbus-Senftenberg, Germany  
Year 2012 – 2015  
Thesis Title Systematic analysis of inertial wave patterns in spherical shell experiments  
Description of research Visualization, EOF and PIV analysis of inertial waves in the fluid.  
Simulation and numerical calculation of attractors in inertial waves using MATLAB. Experimental investigation of turbulent rotating flow in a wide gap Taylor-Couette flow.  
Supervisor Prof. Dr. habil. Uwe Harlander

Qualification **B.Sc.**, Mechanical Engineering  
Name of University University of Engineering and Technology Lahore, Pakistan  
Year 2007 – 2011  
Project 1 Design and fabrication of "Solar Water Pumping System"  
Project 2 Feasibility study of "Bio-Gas as an alternate fuel in IC Engines"

## SOFTWARE SKILLS

MATLAB • EOF and PIV analysis of inertial waves  
Solid Works • 3-D Modeling and sketching of venturi tube  
Solid Edge • 3-D Modeling of turbine  
Auto-CAD • Pipeline designing  
2-D Drawing and 3-D Modeling  
SAP • Plant Maintenance & Production Planning Modules  
Configuration in development server using SPRO  
MS Office • Word, Excel, Power Point  
Basic Knowledge of Pro-E, Ansys and Auto Desk Inventor

## **CAREER HIGHLIGHTS**

- Published research abstract in EGU General Assembly “Experimental study of inertial waves in a spherical shell induced by librations of the inner sphere” with identification number EGU2015-5650 at Vienna, Austria in April 2015.
- Published master’s thesis “Systematic analysis of inertial wave patterns in spherical shell” with ISBN: 978-3-639-84413-9.

## **LANGUAGES**

- English (Full professional proficiency)
- German (Elementary proficiency)
- Urdu (Native proficiency)

## **SOCIAL SKILLS**

- Cooperative and optimistic
- Ability to work under pressure
- Ability in conflict management and dispute resolution

## **EDUCATIONAL COMPETENCES**

- Attended “24<sup>th</sup> PIV Course” at DLR Gottingen, Germany in March 2016.
- Attended “9<sup>th</sup> International Symposium on Cavitation” at Lausanne, Switzerland in December 2015.
- Attended “Summer school on Energy Efficiency and Use of Renewable Energy in Urban Environments” at Berlin, Germany in August 2015.
- Attended “International DAAD- Alumni Seminar on - Intensifying Utilization of Renewable energy Technologies for Propelling Development of Asian Developing Countries” at Cottbus, Germany in January 2014.
- Ex-member of ASME- American Society of Mechanical Engineers.