

**SYAM S.**

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## QUALIFICATION & SKILLS

### ACADEMIC CREDENTIAL:

Courses	Specialization	Educational Body	Percentage
Ph.D. (Pursuing )	Propulsion	Indian Institute of Technology Kharagpur, Kharagpur, India.	NA
M.Tech	Turbomachines	S. V. National Institute of Technology, Surat, India.	8.98/10
B.E.	Aeronautical Engineering (Aeromechanical Stream)	Aeronautical Society of India.	58.35
10+2	Civil Engineering And Maintenance	Kerala State Board	71.5
10th		Kerala State Board	59.16

### PROJECT (CURRICULUM)

- **Ph.D. Topic:** Single Droplet Combustion
- **M.Tech Dissertation:** Design and Optimization of High-Pressure Ratio Airfoils for Axial Flow Compressors.
- **M.Tech Seminar:** Study on Optimization of Transonic Airfoils Using Genetic Algorithm.
- **B.E. Project:** Study on Shock Wave Boundary Layer Interaction.

### AREA OF INTEREST:

- Droplet Combustion, Alternative/Renewable Fuels.

- Gas Turbine Engines and Propulsion.
- Flow through Turbomachines, Design of Axial Flow Compressor and Axial Flow Turbine.
- Fluid Mechanics, Aerodynamics and Computational Fluid Dynamics.
- Thermodynamics, Heat and Mass Transfer.

### **SOFT SKILL:**

- **Working environment:** Windows (familiar with Linux)
- **Application:** MS OFFICE
- **Software:** CFD software's GAMBIT&FLUENT, AX-Stream
- **Languages:** Fortran, and MATLAB

### **KEY ACADEMIC ACHIEVEMENT:**

- **Graduate Aptitude Test in Engineering (GATE):** GATE 2011 (AE-Aerospace Engineering)
- **Rank:** 58
- **Score:** 555
- **Percentile:** 98.02

### **TRAINING:**

- A course of 6 weeks laboratory training at Tagore Engineering College in Aerodynamics, Propulsion, and Structures.
- A course of 3 days at "Sardar Vallabhabhai National Institute of Technology" in Ax-Stream software in the following modules "Axial Flow Compressor", "Axial Flow Turbine", "Radial Turbine" and "Centrifugal Flow Compressors".

### **CONFERENCE AND JOURNAL PAPERS:**

- S. Syam, Srinibas Karmakar and Ratan Joarder, "An experimental study on droplet combustion of different fuels and biofuel blends in open atmosphere", ICTACEM 2014, December 29-31, 2014, IIT Kharagpur, India, No. 335.
- S. Syam, D. Chaitanya Kumar Rao, Srinibas Karmakar, and Ratan Joarder. "Puffing and Micro-explosion behaviour of Ethanol/Jet A-1 Fuel Droplets", 54th AIAA Aerospace Sciences Meeting, AIAA SciTech Forum, 4-8 January 2016, San Diego, California, USA (AIAA 2016-1683).

- D. Chaitanya Kumar Rao, S. Syam, Srinibas Karmakar. “Droplet Combustion Characteristics of Butyl Butyrate, Limonene, and their Blends with Jet A-1”, 54th AIAA Aerospace Sciences Meeting, AIAA SciTech Forum, 4-8 January 2016, San Diego, California, USA (AIAA 2016-1682).
- D. Chaitanya Kumar Rao, S. Syam, Srinibas Karmakar, and Ratan Joarder, “Experimental investigations on nucleation, bubble growth, and micro-explosion characteristics during the combustion of ethanol/Jet A-1 fuel droplets”, *Experimental Thermal and Fluid Science*, 89, 284-294.

### PERSONAL VITAE

**Parents:** Sasidharan K. K. and Chandramathy L.  
**Date of Birth:** 25.05.1988  
**Gender:** Male  
**Marital Status:** Single  
**Nationality:** Indian  
**Cast:** Hindu  
**Languages Known:** To write: Malayalam (Mother tongue), Hindi, English.  
 To speak: Malayalam, English, Hindi, and Tamil.

**Permanent Address:** Nambarayyath Sapthagiri,  
 S. W. Thazhava,  
 Thazhava P.O.,  
 Karunagappally,  
 Kollam (District),  
 Kerala, India – 690523.

### DECLARATION

I hereby declare that the information provided above is correct and true to the best of my knowledge. If I am given a chance to work with your esteemed concern, I assure you that I shall discharge my duties to the utmost satisfaction of my superiors for the growth of the company.

Date: 28/10/2015  
 Place: Kharagpur

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