

# Resume

## **Dr. Shantanu Srivastava**

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*Research Interest – Supersonic Flows, Free Shear Flows, Shock Wave Boundary Layer Interaction*

### *Educational Profile*

**Ph.D** – 2016, *Aerospace Engineering, IIT Kanpur*

**M.Tech.** – 2009, *Mechanical Engineering, IIT-BHU*

**B.Tech.** – 2006, *Mechanical Engineering, AKTU Lucknow*

### *Experience*

Assistant Professor – *Department of Mechanical Engineering, NIT Patna, 2016 – 2019*

Assistant Professor – *Department of Mechanical Engineering, MNNIT Allahabad, 2019 – Present*

### *M.Tech. Thesis Supervised*

1. Investigation of Supersonic Jet Mixing through ANSYS, Department of Mechanical Engineering, NIT Patna
2. Numerical Investigation of Supersonic Jet Mixing in C-D Nozzle, Department of Mechanical Engineering, NIT Patna
3. Numerical Study of Flow and Thermal Characteristics of Negatively Buoyant Wall Jet, Department of Mechanical Engineering, NIT Patna

4. Numerical investigation of the mixing characteristics of a supersonic jet controlled with delta tab, Department of Mechanical Engineering, NIT Patna
5. Numerical Investigation of the Mixing Characteristics of a Supersonic Jet Controlled with Rectangular Tab, Department of Mechanical Engineering, NIT Patna

### *Publications*

1. Bholu Kumar, Suresh Kant Verma and Shantanu Srivastava, “Numerical Investigation of Mixing Performance for Controlled Supersonic Square Jet”, Journal of Computational & Applied Research in Mechanical Engineering – Accepted, 2020
2. Bholu Kumar, Shantanu Srivastava, “Modelling 2-D Supersonic Jet from a Convergent-Divergent Nozzle using k- $\epsilon$  Realizable Turbulence Model”, Journal of Physics: Conference Series, Volume 1240, Issue 1, 2019
3. Devendra Kumar Lohia, Bholu Kumar, Shantanu Srivastava, H. K. Paliwal, “Numerical Simulation of Supersonic Over-expanded Jet from 2-D Convergent- Divergent Nozzle”, International Journal of Integrated Engineering, Volume 10, 2018
4. Shantanu Srivastava, Mrinal Kaushik, “Supersonic square jet mixing in presence of cross-wire at nozzle exit”, American Journal of Fluid Dynamics, Volume 5, 2015
5. Shantanu Srivastava and E. Rathakrishnan, “Performance of Corrugated Limiting Tab in Presence of Sharp Corners”, International Review of Aerospace Engineering, Volume 7, Issue 1, 2014
6. Shantanu Srivastava and E. Rathakrishnan, “Performance of Corrugated Limiting Tab in Presence of Sharp Corners”, 49th AIAA/ASME/SAE/ASEE Joint Propulsion Conference, July 2013, San Diego, USA
7. Shantanu Srivastava and E. Rathakrishnan, “Limiting Tab for Square Jet Control”, 13<sup>th</sup> International Symposium on Unsteady Aerodynamics, Aeroacoustics and Aeroelasticity of Turbomachines, 11-14 September 2012, Tokyo, Japan

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