Dr. PRAVEEN LAWS

Aerodynamicist | CFD | Wind Engineer | OpenFOAM | ANSYS Fluent |

New Delhi, INDIA

PERSONAL INFO

BIRTH DATE
29 May 1987

NATIONALITY
Indian

YEARS OF EXPERIENCE
5 years

ABOUT ME

An eminent CFD engineer in the field of aerodynamics, rotor dynamics, wind-driven turbine cluster, extraction of wind power from any moving bluff body and Drone wake study. I am a specialist in performing rotor dynamic simulation in both OpenFOAM and ANSYS Fluent.

9 Publications

7 Projects

EDUCATION

2020 — Ph.D. [Mechanical Engineering]
Shiv Nadar University

2013 — M.S [Aeronautical Engineering]
Hindustan University

2009 — B. Tech [Aeronautical Engineering]
Sathyabama Institute of Science and Technology

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LINKEDIN
Dr. Praveen Laws

CAREER TIMELINE

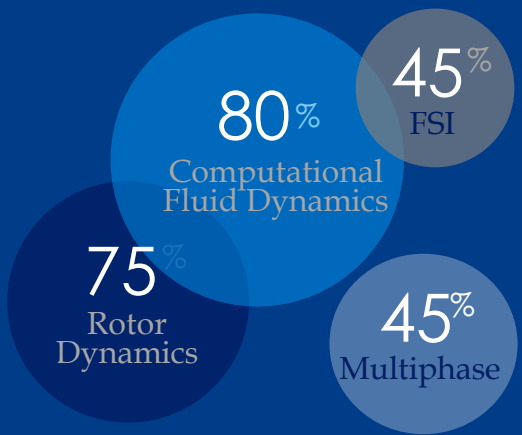
LANGUAGES

ENGLISH

TAMIL

HINDI

EXPERTISE



SKILLS

- OpenFOAM
- Ansys Fluent
- C - Programming
- Gmsh
- Paraview

HOBBIES

PROFESSIONAL INTEREST

- Aerodynamics
- Computational fluid dynamics
- Fluid mechanics
- Wind energy

RESEARCH EXPERIENCE

- Numerical modelling of modified Savonius wind turbines
- Wind driven characterization of single and cluster arrangement of turbines
- Modelling of wind power generation from moving bluff body

ARTICLES PUBLISHED

- **Laws, P.**, Kumar, A. and Mitra, S., 2020. A numerical study towards harvesting power from train slipstream using savonius rotor. **Journal of Energy Resources Technology**, pp.1-40.
- **Laws, P.**, Saini, J.S., Kumar, A. and Mitra, S., 2020. Improvement in Savonius Wind Turbines Efficiency by Modification of Blade Designs—A Numerical Study. **Journal of Energy Resources Technology**, 142(6).
- **Laws, P.**, Bethi, R.V., Kumar, P. and Mitra, S., 2019. Improved design of Savonius rotor for green energy production from moving Singapore metropolitan rapid transit train inside tunnel. Proceedings of the Institution of Mechanical Engineers, **Part C: Journal of Mechanical Engineering Science**, 233(7), pp.2426-2441.
- Bethi, R.V., **Laws, P.**, Kumar, P. and Mitra, S., 2019. Modified Savonius wind turbine for harvesting wind energy from trains moving in tunnels. **Renewable energy**, 135, pp.1056-1063.
- Laws, P., Aditya, B., Bethi, R.V. and Mitra, S., 2017. Parametric Sensitivity Analysis of Vertical Axis Wind Turbine. International Journal of Mechanical Engineering and Robotics Research, 6(5).
- Laws, P.; Saini, J.S.; Kumar, A. A Study on OpenFOAM's Overset Mesh Support Using Flow Past NACA 0018 Airfoil. Preprints 2019, 2019070217 (doi: 10.20944/preprints201907.0217.v1).

REFEREES

- Dr. Santanu Mitra
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- Dr. Ajit Kumar
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  Department of Mathematics
  Shiv Nadar University
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- Dr. Nishant Mishra
  Associate Dean of Student Welfare
  Department of Mechanical Engineering
  Shiv Nadar University
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- Dr. Pankaj Kumar
  AI & IoT – Project Lead at Vulcan-AI
  email : pkumar.vt@gmail.com