

# Harshit Kumar Sandhu

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CONTACT INFORMATION	Doctor of Philosophy (Pursuing) Department of Aerospace Engineering Indian Institute of Science Bengaluru, Karnataka (India)	<i>E-mail:</i> harshithk@iisc.ac.in
RESEARCH INTERESTS	Wave propagation in meta-materials, Vibrations, Computational mechanics, Fluid-structure interaction	
EDUCATION	<b>Indian Institute of Science</b> , Bengaluru, Karnataka, India	
	Doctor of Philosophy in Aerospace Engineering Grade Point Average: 8.6/10 • Advisor: Prof. Rajesh Chaunsali	Jan 2020 - Present
	<b>Government Engineering College</b> , Raipur, Chhattisgarh, India	
	Bachelor of Engineering in Mechanical Engineering Grade Point Average: 7.99/10 • Thesis topic: "Design and Simulation of Hood Assembly of Electric Mini-Crane" • Advisor: Lecturer Shashi Chichkhede	June 2016
	<b>FIITJEE Junior College</b> , Hyderabad, Andhra Pradesh, India	
	Higher Secondary School (Board of Intermediate Education, Andhra Pradesh) Percentage: 78.68% • Subjects studied: English, Physics, Chemistry, Mathematics and French	April 2012
	<b>Kendriya Vidyalaya Sangathan</b> , Kirandul, Chhattisgarh, India	
	Secondary School (Central Board of Secondary Education, India) Grade Point Average: 9/10 • Subjects studied: English, Hindi, Social Science, Science and Mathematics	May 2010
WORK EXPERIENCE	<b>Subject Matter Expert</b> THE GATE ACADEMY Pvt. Ltd., Bangalore	August 2019 – December 2019
	<b>Faculty</b> THE GATE ACADEMY Pvt. Ltd., Bangalore • Trained 2000+ GATE aspirants. • Developed course material for the training program. • Trained students of State Engineering Colleges (listed in NPIU) for GATE.	September 2018 – July 2019
	<b>Vocational Trainee</b> Steel Authority of India, Bhilai, Chhattisgarh	
	• Got introduced to various workshops of BSP-SAIL project, namely, Blast furnace, Coke Oven Battery, Steel Melting Shop, Machining Shop and Rolling mill. • Learnt about the operations, functioning and some basic theory of the processes carried out at each workshop.	August 2014
HONORS AND AWARDS	• All India Rank 53 in the national level Graduate Aptitude Test for Engineers (2019) • Overall State Rank 625 in the state level Chhattisgarh Pre-engineering Test (2012)	

COURSES

- Academic coursework: Mathematical methods for Aerospace engineers, Vibrations, Finite element methods, Fluid Mechanics, Aeroelasticity, Fluid-structure interaction, Numerical solution of differential equation, Fluid Turbulence, Solid Mechanics (Audited)
- Independent coursework: Fluid-solid interactions (Coursera), The Finite Element Method for Problems in Physics (Coursera), Lectures on Continuum Physics (openmichigan)

TECHNICAL SKILLS

- Simulation and visualization softwares : OpenFOAM, MSC NASTRAN, ParaView
- CAD and meshing softwares : Creo Parametric
- Softwares for documentation: LaTeX, Microsoft Office Suite
- Programming and scripting languages : C++, MATLAB, Python
- Operating systems : Ubuntu, Windows

PROFESSIONAL MEMBERSHIPS

Society of Industrial and Applied Mathematics (SIAM) (2021 - *present*)

HOBBIES

Listening music, playing keyboard, photography, reading spiritual books, trekking and also very passionate towards teaching