Curriculum Vitae of Shashank Agrawal, born on 11th Dec 1986

Current Address: No - 22/247, Shastri Nagar, Amahiya, Rewa - 486001, Madhya Pradesh, Bharat Email: shash7.shashank@gmail.com, Phone:+91-9738038263, Nationality: Indian, Languages: English, Hindi, Sanskrit

SUBJECTS THAT I CAN TEACH

Physics
Mathematics
Entrepreneurship & Leadership Development
Communication Skills
Programming Using Python

PROFESSIONAL EXPERIENCE

Mentor of Team VillageBrand, Winner in PitchFest competition, organised by Moonshot Jr under their Entrepreneurship & Leadership Development Program (ELDP)

Aug 2021 - Jan 2022

https://www.youtube.com/watch?v=cxuZCTZt3Kc

Engineer & Developer at SYmbosim Simulations Private Limited

Nov 2017 - May 2018

Doctoral Level Researcher at Nonlinear Multifunctional Composites - Analysis & Design (NMCAD) Lab, Aerospace Department, Indian Institute of Science Bangalore, Karnataka under Prof. Dineshkumar Harursampath

Aug 2011 - Oct 2016

- Title of the Project: "Piezo-Composite Flapping Wing as Integral Structure & Actuator"
- Skills developed: State of the art Variational Asymptotic Method, Calculus of Variations, Finite Element Modeling for Nonlinear Problems, Advanced programming in Python,
- Mentorship: Mentored more than 30 intern students on various peripheral works of the project.

Assistant Professor at Aerospace Engineering Department, Amrita University, Coimbatore, Tamilnadu (TN), India

Aug 2010 - Jul 2011

- Courses Taught: Aeroelasticity, Finite Element Method and Flight Dynamics & Control for 3rd year & 4th year aerospace undergraduate students
- Labs Conducted: Structures Lab, Vibration Lab for 2nd year & 3rd year aerospace undergraduate students

EDUCATIONAL BACKGROUND

Graduation & Post Graduation

- MA in Sanskrit (Navya-Vyakaran)
 Central Sanskrit University, Bhopal, India through Distance Education Programe, Mukta Swadhyaya
 Peetham
 Oct 2018 Jan 2021
- B. Tech & M. Tech (Aerospace Structures)

 Aerospace Department, Indian Institute of Technology Bombay, IIT Bombay under 5-year Dual Degree
 Programme

 Aug 2005 Jul 2010

• Courses Studied

at IISc Bengaluru
 Variational Asymptotic Method, Mechatronics, Space Flight Mechanics

online courses
 Advanced Finite Element Method, Continuum Mechanics, Functional Minimisation, Introduction to Computer Science & Programming, Autonomous Navigation for Flying Robots, Tensor Analysis & Manifolds

at IIT Bombay
 Aeroelasticity, Fiber- Reinforced Composites, Finite Element Method, Elastic Plate Theory, Vibrations & Structural Dynamics, Measurement & Instrumentation Techniques, Engineering Design, Aircraft Design & Optimisation

COMPUTER SKILLS (P: PROFICIENT, I: INTERMEDIATE, E: ELEMENTARY)

Programming: Python (P), Matlab (E), Mathematica (P), Fortran (I)
Computational Softwares: ANSYS (I), Variational Asymptotic Beam Sectional (VABS) Analysis (P),
Geometrically Exact Beam Theory (GEBT) Analysis (P), Variational Asymptotic Method for Unit Cell
Homogenization (VAMUCH) (P), PreVABS (P), PostGEBT (P), PyFEM (I), Finite Element Analysis Program, FEAP(P), ABAQUS (E)

COMPETITIONS & CREDENTIALS

- Winner as the team Lakshya, comprising of 13 IISc students in an International Student Design Competition (SDC) under Best Entrant Graduate Category, organised by American Helicopter Society (AHS), sponsored by Boeing Company on the topic "Distributed Logistics in an Urban Setting Using Small Unmanned Aerial Vehicles"
 Feb 2015 - May 2015
- 3. All India Rank (AIR) 1487 in Joint Entrance Examination (IIT JEE). Among top 0.5% of 3.5 lakh students appeared in the year of the examination May 2005
- 4. All India Rank (AIR) 8032 in All India Engineering Entrance Examination (AIEEE). Among top 1.6% of 5.2 lakh students appeared in the year of the examination Apr 2005