Kevin Jose

CONTACT INFORMATION

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RESEARCH INTERESTS

Mechanical Vibrations, Musical Acoustics, Solid Mechanics

WORK EXPERIENCE

University of Southampton, Southampton, UK

PhD student & Marie Sklodowska-Curie Fellow — May 2019 -

- Researching effect of structural periodicity in mechanical wave propagation characteristics
- Industrial applications of the aforementioned will be explored at Vestas-Aircoil, Denmark

Boston Consultancy Group, Gurgaon, India

Specialist Consultant — Nov 2018 - May 2019

- Worked on a profit turnaround program for one of India's largest steel manufacturers
- Focused on de-bottlenecking of finishing operations at the world's largest rail mill
- Wrote a Python based code to collect and summarize defect occurrence in the final product. This was later deployed at the plant for use in maintenance planning and execution.

New York University Tandon School of Engineering, Brooklyn, USA

Ph.D. Candidate, Mechanical Engineering — Aug 2017 - Oct 2018

- Conducted research in the areas of electro-active materials (results published in Appl. Phys. Lett.) and wearable assistive technology
- Served as teaching assistant for two semesters for an undergraduate course
- Received Best PhD Qualifying Exam Performance Award from the dept.

EDUCATION

Indian Institute of Technology Kanpur, Kanpur, India

B.Tech.-M.Tech. Dual Degree, Mechanical Engineering with a minor in control systems engineering — Jul 2012 - Aug 2017

- Masters Thesis: Vibration of circular membranes backed by taut strings. (Results published in J. Acoust. Soc. Am.)
- Advisors: Prof. Anurag Gupta, Prof. Saikat Ghosh

INDUSTRIAL SECONDMENTS

Vestas aircoil A/S, Lem, DK

Visiting PhD student — Jan 2020 -

- Part of the R&D dept

Dinex A/S, Middelfart, DK

Visiting PhD student — Oct 2020 - Nov 2020

- Worked with the Product Development team
- Conducted structural FE analysis of an exhaust system sub-componenet

Summer Internships

Sigapore University of Technology and Design, Upper Changi, Singapore

Visiting Student — May 2016 - July 2016

- Received training in soft material robotics design and fabrication

Whirlpool Global Technology & Engineering Center, Pune, India

Summer Intern — May 2015 - July 2015

- Proposed a mathematical model of a dishwasher
- Received Best Intern Award

Refereed Journal Publications

1. Bhaskar A., and **Jose K.** "How far does a fold go?" *Extreme Mechanics Letters* 45 (2021): 101261
2. Boldini A.*, **Jose K.***, Cha Y., and Porfiri M. "Enhancing the deformation range of ionic polymer metal composites through electrostatic actuation." *Applied Physics Letters* 112.26 (2018): 261903 (*Co-first authors)
3. **Jose, K.**, Chatterjee, A., and Gupta, A. "Acoustics of Idakkā: An Indian Snare Drum with Definite Pitch." *The Journal of the Acoustical Society of America* 143.5 (2018): 3184-3194

Conference Proceedings

1. Boldini, A., **Jose K.**, Cha Y., and Porfiri M. "Electrostatic actuation in ionic polymer-metal composites." In *Nano-, Bio-, Info-Tech Sensors and 3D Systems III*, vol. 10969, p. 1096910. International Society for Optics and Photonics, 2019.

Awards, Fellowships & Scholastic Achievements

Marie Sklodowska-Curie Fellow ITN — 2019
Awarded by University of Southampton.

Best Mechanical Engineering PhD Qualifying Exam Performance — 2018
Awarded by NYU Tandon School of Engineering.

School of Engineering Fellowship — 2017
Awarded by NYU Tandon School of Engineering.

Best Intern Award — 2015
Awarded by Whirlpool Global Technology & Engineering Center, Pune.

Merit-cum-Means Scholarship — 2014
Awarded by IIT Kanpur.

IIT-Joint Entrance Exam All India Rank 792 — 2012
amongst ∼0.47 million candidates (99.8%ile).

KVPY Fellowship Award (Declined) — 2012
National fellowship for students interested in research careers.
Awarded by the Government of India & Indian Institute of Science, Bangalore.

Professional Trainings

FEA Best Practices [Certificate]
Self paced video course (16 Learning Hours) 2020

ANSYS Mechanical Basic Structural Non-Linearities [Certificate]
Self paced video course (16 Learning Hours) 2020

Introduction to Ansys SpaceClaim Direct Modeler for FEA [Certificate]
Self paced video course (12 Learning Hours) 2020

ANSYS Mechanical Getting Started [Certificate]
2 Day training on ANSYS workbench 2020

IHS ESDU
2 Day training on IHS ESDU design solutions 2020

Relevant Graduate Courses

Applied Numerical Methods, Optimization Methods in Engineering Design, Approximate Methods in Engineering Mathematics, Wave Propagation in Solids, Stochastic Calculus, Biostatistics

Teaching Experience

Teaching Assistant

NYU Tandon School of Engineering

- ME-UY 3211: Mechanics of Materials Laboratory Spring 2018
- ME-UY 3211: Mechanics of Materials Laboratory Fall 2017

IIT Kanpur

- ESO 202A/204: Mechanics of Solids Spring 2017
- MSO 202A: Complex Analysis Fall 2016

Technical Skills

Programming Languages: MATLAB, Python, ANSYS APDL, R
Softwares: Mathematica, AutoCAD, Autodesk Inventor, ANSYS Mechanical
Development Platforms: Arduino, Raspberry Pi
Electronics: AVR μCs, PCB design and fabrication
Rapid Prototyping: 3D printing, Laser Cutting
Soft Robotics Fabrication: Mold Design, Casting

Mentoring Experience

NYU Tandon School of Engineering, Brooklyn, NY, USA
Mentored 2 undergraduate student and 1 masters student in their summer projects

Electronics Club, IIT Kanpur, Kanpur, UP, India
Delivered lectures and workshops with more than 300 attendees/participants on hobbyist electronics. Mentored 8 undergraduate summer projects.

Last updated on March 22, 2021