**Kevin Jose**

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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*, *In press*
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**
Awarded by University of Southampton. 2019

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

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

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

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

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

**KVPY Fellowship Award** (Declined)
National fellowship for students interested in research careers. 2012
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 $\mu$Cs, 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.

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