



## AKSHAY PRAKASH KALGUTKAR

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Blood Group: O<sup>+</sup>

Date of Birth: 2 August 1995

Place of Birth: Karwar

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### Professional summary

Akshay Prakash Kalgutkar is currently a research scholar at the Department of Civil Engineering, Indian Institute of Technology Bombay. Akshay works in the field of Structural Health Monitoring. The research focuses on understanding the behaviour of damaged structures using the vibrational-based approach and ultrasonics-guided wave propagation. He also carries out work to understand the dynamic instability characteristics of laminated stiffened panels. He is awarded with the prestigious Prime Minister's Research Fellowship by the Government of India.

### Research Interests

Non-destructive evaluation (NDE), Wave propagation, Guided wave, Finite Element Method, Dynamics of Structures, Structural stability, Composite material, Functionally graded material.

### Ph.D. Thesis (2018 - Current)

**Topic:** Forced Vibration and Wave propagation behaviour of delaminated stiffened composite panel subjected to in-plane edge loading.

**Supervisors:** Dr. Sauvik Banerjee, Department of Civil Engineering, IIT Bombay, Mumbai

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### Education

#### Doctor of Philosophy (Ph.D.)

(2018 - current)

Department of Civil Engineering, Indian Institute of Technology Bombay.

**(CGPA 8.87/10)**

#### Bachelor of Engineering (B.E)

(2014 – 2018)

Department of Civil Engineering, B.M.S College of Engineering, Bengaluru, Visvesvaraya Technological University, Belgaum.

**(CGPA 9.45/10)**

#### Higher Secondary

(2011 - 2013)

Mathematics, Physics, Chemistry, Computer Science. Divekar PU college, Karwar. Department of Pre-university Education, Karnataka. **(Marks 86.67%)**

## Secondary Education

(2005 - 2011)

Mathematics, Science, Social Science studies. Balmandir High School, Karwar. Karnataka Secondary Education Examination Board. **(Marks 92.32%)**

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## Academic Projects

### 1. Summer internship:

- Interned at Krishcon Architect, Structural Designer, Valuer and Consulting Civil Engineer, Karwar

Working as a site supervisor and draftsman from June 01, 2017, to July 10, 2017, in construction practices under the guidance of Mr. Krishnanand Bandekar.

- Interned at Prashanthi Consultants, Karwar

Worked as a site supervisor and draftsman from June 06, 2016, to July 09, 2016, in the field of construction practices under the guidance of Mr. Devrai Vernekar.

2. **Bachelor's degree project at BMSCE, Bangalore (Aug-2017 to May-2018).** Vibration and buckling behaviour of Quasi-isotropic laminated panels with and without cutout subjected to partial and concentrated in-plane edge loading.
  3. **Extensive Survey Project** on various elements of civil engineering in Melkote village of Karnataka.
  4. **Mini project on Concrete Technology course** during 4th semester of B.E on Partial replacement of cement by Supplementary cementitious materials (Bagasse Ash).
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## Proficiency and Skills

- **Finite Element Method:** Extensively applied to solve wave propagation problems, Modal behaviour and forced vibration behaviour problems, Buckling, and Static problems.
  - **Non-destructive Testing:** Ultrasonic guided waves, Ultrasonics Flaw detector.
  - **Computer languages:** MATLAB, C language, Fortran.
  - **Software packages:** Abaqus CAE, AutoCAD, STAAD.Pro, CATIA, Solidworks, Pro-E.
  - **Word processing tools:** MS Office.
  - **Operating System:** Microsoft Windows, Ubuntu.
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## Awards and Achievements

- Awarded with the prestigious Prime Minister's Research Fellowship by the Government of India.
  - Coordinator of the Nirman-2017, International Civil Symposium of Civil Engineering Department, BMSCE.
  - Event Coordinator of the Phase Shift 2016, National level Techfest, BMSCE.
  - He represented BMSCE in a concrete panorama and deminar held by ICI, Bangalore, during March 2017 and won 1st prize.
  - Won 1st prize in quiz competition held by NWWA, Karwar, held on 05 December 2011.
  - Awarded “BEST BOY” at Divekar PU College.
  - Awarded “BEST BOY” in Balmandir High School.
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## Courses Instructed or Undertaken

- Worked as a course instructor for the “Software Application Laboratory” course at BMS college of engineering, Bengaluru for the spring semester of 2020-2021 where simple structural engineering problems were solved using MATLAB and STAAD Pro.
  - I am a Teaching Assistant for the “Nondestructive Testing of Materials” course and the “Elastic Wave in Solids” course instructed by Prof. Sauvik Banerjee at the Indian Institute of Technology Bombay.
  - Participated in the course on “Theory and Analysis of Laminated composite and Functionally Graded structures”, delivered by Prof. J. N. Reddy from 8th to 11th September 2020.
  - Attended one-week faculty development programme on “Structural Health Monitoring and its Implications”, conducted by Department of civil engineering in association with ISTE BMSCE- chapter from 15th- 19th June 2020.
  - Attended a seminar on the whole house retrofit: Energy design conducted by Enhabit and Green building store on 28th May 2020.
  - Participated in a two-day workshop on “Start-ups: Skill Development and Opportunities”, organized by BMSCE, on January 29th and 30th, 2018.
  - Attended two weeks of AICTE-ISTE short term training programme on “Advances in Finite Element Methods and Applications”, organised by BMSCE, Bengaluru during July 2017.
  - Attended the concrete panorama and deminar held by ICI, Bangalore, during March 2017.
  - Six months Certified course in Drafting and 3D Modelling (Window XP/Vista, CATIA, Solidworks, Pro-E, AutoCAD) from Satyam Computer Education during February 2014.
  - Certified course on Ms-Office, Programming in C, and HTML from Balmandir High School.
  - Have knowledge of 3DS-MAX and 3D- HOMEMAKER.
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**Personal Details**

- Nationality : Indian
- Date of Birth : 2<sup>nd</sup> August 1995
- Age : 25
- Gender : Male
- Languages skills : Expert level - English, Kannada, Hindi.  
Conversational level - Marathi, Konkani.
- Mother's name : Pratiksha Prakash Kalgutkar
- Father's name : Prakash Raya Kalgutkar

I hereby declared that the above-given information is accurate to the best of my knowledge.

**PLACE:** Mumbai

**DATE:** 14/07/2021