



Kiran Mukund

B.Tech, M.Tech – Mechanical Engineering

Educate the next generation to be Humans, not educated illiterates or learned monsters

Work Experience

- 10/12/2021– Present **Assistant Professor, Mechanical Engineering.**
School of Engineering, CUSAT, Ernakulam
- 16/08/2019– 13/10/2020 **Assistant Professor (Guest), Mechanical Engineering.**
Kunjali Marakkar School of Marine Engineering, CUSAT, Ernakulam
- 01/08/2019– 30/01/2021 **Supervisor, Technical Department.**
Smart Engineering, Kariyad
- 13/03/2019– 25/07/2019 **Assistant Professor (Ad Hoc), Mechanical Engineering.**
Government Engineering College, Thrissur
- 01/03/2017– 07/12/2018 **Assistant Professor, Mechanical Engineering.**
Adi Shankara Institute Of Engineering and Technology, Kalady
- 18/07/2016– 28/02/2017 **Assistant Professor, Mechanical Engineering.**
Axis College Of Engineering and Technology, Kodakara
- 05/09/2013– 30/07/2014 **Graduate Mechanical Engineer.**
Apollo Tyres, Thrissur, Kerala

Education

- 2014–2016 **M.Tech, Engineering Design.**
Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore
- 2009–2013 **B.Tech, Mechanical Engineering.**
Adi Shankara Institute of Engineering and Technology, Kalady
- 2007–2009 **Higher Secondary, Mathematics, Physics, Chemistry & Biology.**
Vidhyadhiraja Vidhya Bhavan Higher Secondary School, Aluva
- 2006–2007 **SSLC.**
Always Settlement Higher Secondary School, Aluva

Technical Skills

MATLAB	●●●●●	ISRO FEAST ^{SMT}	●●●●●	Abaqus FEA	●●●●●
ANSYS	●●●●●	Autodesk AutoCAD	●●●●●	Autodesk Inventor	●●●●●
Solid Works	●●●●●	Maple	●●●●●	Open Modelica	●●●●●
L ^A T _E X	●●●●●	Microsoft Office	●●●●●	Adobe Photoshop	●●●●●

Field of Interest

- Solid Mechanics
- CAD Modelling
- Vehicle Dynamics
- Computational Analysis
- Linear & Nonlinear Vibrations
- Automobiles

Publications

Journal Publications

- October 2018 **Design, Analysis and Fabrication of Automated Center Stand for Two Wheeler.**
Kiran Mukund, Design, Analysis and Fabrication of Automated Center Stand for Two Wheeler, *GRD Journals- Global Research and Development Journal for Engineering* | Volume 3 | Issue 11 | October 2018, ISSN: 2455-5703
<http://grdjournals.com/uploads/article/GRDJE/V03/I11/0014/GRDJEV03I110014.pdf>
- January 2018 **Process Modelling and Validation of LNG Re Liquefaction.**
Majo Davis, Ben Austin B Alapatt, SreekanthSarma P V, Aravind M, Kiran Mukund, Process Modelling and Validation of LNG Re Liquefaction, *GRD Journals- Global Research and Development Journal for Engineering* | Volume 3 | Issue 2 | January 2018, ISSN: 2455 5703
<http://grdjournals.com/uploads/article/GRDJE/V03/I02/0032/GRDJEV03I020032.pdf>

Conference Publications

- August 2016 **Dynamics of a Stable-Quazi-Zero-Stiffness Isolator Mechanism using Multi-Harmonic Balance Method.**
K.Mukund, B. Santhosh, Dynamics of a Stable-Quazi-Zero-Stiffness Isolator Mechanism using Multi-Harmonic Balance Method, *International Conference on Systems, Energy & Environment 2016*|278-282| August 2016, Govt: College of Engineering Kannur, Kerala, ISBN: 978-93-85777-87-5
https://drive.google.com/file/d/0B2wRsTeMQcWE0WhpaXRpM2hEMDg/view?usp=drive_web

Peer Reviewer

- International Journal of Automotive and Mechanical Engineering

Project Experience

- 2018 **Multi-terrain vehicle equipped with an ornithopter**, *Co-investigator*, Applied for funding, Kerala State Council for Science, Technology & Environment.
To design and fabricate a high mobility multi-terrain vehicle with an ornithopter of bio-mimic design. The system can find its applications both in military/ civil applications
- 2018 **Automated Centre Stand for Two Wheelers.**
Designed and analysed different models of centre stands for two wheelers using Ansys software and fabricated the best model
- 2018 **Pantograph Mechanism.**
Studied and fabricated a working model of Pantograph Mechanism as a micro project
- 2016 **Dynamics of A Quasi Zero Stiffness Vibration Isolation Mechanism.**
Designed a Stable Quasi Zero stiffness vibration isolation system to obtain low frequency vibration isolation, and investigated the nonlinear and chaotic behavior of the system using computational methods
- 2013 **Regenerative Solar Water Heater.**
Designed and fabricated a solar water heater which gives hot water both at morning and evening by regenerating the heat using regenerative materials like paraffin wax

Industrial Training

- 22/06/2011 - **In-Plant Training**, *Cochin Port Trust*, Kochi, Kerala.
30/06/2011 Undergone training at Ernakulam Warf & Automobile section of the IC Engines Division, where the maintenance of Ships, Fork Lift Trucks, Mobile cranes & various other automobiles are being carried out

Achievements

- 2018 **NPTEL Mentor Award.**
Recognized by NPTEL as mentor for the NPTEL online course titled Introduction to Mechanical Vibration. Mentored 15 students on this course and also obtained an Elite certificate
- 2016 **Best Paper Award.**
K. Mukund, B. Santhosh, Dynamics of a stable-quazi-zero-stiffness Isolator Mechanism using Multi-Harmonic Balance Method, Proceedings of the International Conference on Systems, Energy & Environment ICSEE 2016

Subjects Handled in Academics

- Theory of Vibrations
- Dynamics of Machinery
- Machine Drawing
- Mechanics of Fluids
- Solid Mechanics
- Automobile Engineering
- Computer Aided Design & Analysis
- Basic Mechanical Engineering

Leadership & Coordination

- 2017–2018 **Faculty Advisor**, *B.Tech Mechanical Engineering*.
2017–21 batch, Adi Shankara Institute Of Engineering and Technology, Kalady
- 2017 **Workshop Conducted**, *Workshop on Introduction to MATLAB*.
2nd August 2017, Adi Shankara Institute of Engineering and Technology, Kalady
- 2018 **Workshop Attended**, *Developing Digital Twins: Modelica Environment*, Workshop handled by Dr. Peter Fritzsos, Director of the Open Source Modelica Consortium.
3rd & 4th December 2018, Adi Shankara Institute of Engineering and Technology, Kalady
- 2018 **Faculty Development Program Attended**, *Multi-Domain System Modelling and Simulation using Modelica*.
4th to 6th October 2018, Adi Shankara Institute of Engineering and Technology, Kalady
- 2016 **Teaching Assistant**, *Nonlinear vibrations and Introduction to MATLAB*.
Four day workshop, 9th – 12th February 2016, Amrita School of Engineering, Coimbatore

Languages

- Malayalam ●●●●● English ●●●●●
- Hindi ●●●●● Tamil ●●●●●

Personal Interests

- Carnatic Music
- Poetry
- Badminton
- Violin
- Driving
- Swimming

Personal Details



20th of March, 1991



Married to Gopika Kiran



Mangalath Soubhagya, Thuruthissery, Mekkad P.O, Kerala- 683589



kiranmukund@gmail.com



(+91) 9567919458



<http://www.facebook.com/kiranmukund>



<https://www.linkedin.com/in/kiranmukund>

Reference

Prof. Dr. M R Radhakrishna Panicker, *Head, Department of Mechanical Engineering,*
School of Engineering, Cochin University of Science & Technology, Ernakulam.
mrrpanicker@gmail.com

Dr. B Santhosh, *Associate Professor,* Department of Mechanical Engineering, Amrita School
of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore.
b_santhosh@cb.amrita.edu

Declaration

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particular.

Date: May 13, 2022

Place: Nedumbassery

Kiran Mukund