

P.HARIHARASAKTHISUDHAN

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Professional Summary

Ambitious academician aiming to leverage 7 years of experience in delivering lectures in Mechanical Engineering and motivating the students to become successful professionals. Aiming to secure an opportunity in which dynamic teaching methods, research activity, creativity and integrity will be highly valued.

Education and Research

- **B.E: Mechanical Engineering**, 2005 – 2009
National Engineering College, Kovilpatti
(Anna University – Chennai)
Completed in First Class with Distinction
- **M.E: Engineering Design**, 2010-2012
Government College of Engineering, Tirunelveli
(Anna University – Chennai)
Completed in First Class with Distinction
First Rank Holder in Anna University
- **Ph.D : Hybrid Metal Matrix nano composite materials and Tribology – (Thesis submitted)**
(Sathyabama Institute of Science and Technology, Chennai)

Teaching Work Experience

- **Assistant Professor**, Aug 2012 to May 2017 (**5 years**)
Loyola-ICAM College of Engineering and Technology, Chennai.
- **Assistant Professor**, June 2017 to current (**2 years**)
National Engineering College, Kovilpatti

Industry Work Experience

- Worked as QC Engineer at “**NELCAST Ltd**” a cast iron foundry in **Ponneri, Chennai** during **June 2009-November 2009 (6 months)**
- Worked as Site Engineer in “**Larsen & Toubro Ltd**” **ECC division**, at **Blast furnace fabrication and Erection project (BF#3) for JINDAL steels, Bellary**, Karnataka during **December 2009-June 2010 (7 months)**

Areas of Interest

- ◆ Hybrid Metal Matrix Composites and Tribology
- ◆ Fracture mechanics and Finite Element Analysis
- ◆ Product Design and Development

Publications

- Influence of metal powder premixing on mechanical behavior of dual reinforcement (Al_2O_3 (μm)/ Si_3N_4 (nm)) in AA6061 matrix
Journal of Alloys and Compounds (Elsevier) - Vol. 731 / pp 100 – 110 / 2018 / Impact Factor – 3.779, SNIP – 1.403, SJR – 1.020 / <https://doi.org/10.1016/j.jallcom.2017.10.002>
- Dry sliding wear behavior of single and dual ceramic reinforcements premixed with Al powder in AA6061 matrix
Journal of Materials Research and Technology (Elsevier) – Vol.8(1) / pp 275-283 / 2019 Impact Factor – 3.398, SNIP – 2.199, SJR – 0.957 / <https://doi.org/10.1016/j.jmrt.2018.01.005>

- Regression and Grey relational analysis on friction and wear behavior of AA6061/Al₂O₃/Si₃N₄/graphite hybrid nano composites
Materials Research Express (IOP) / Mater. Res. Express 6 (2019) 085017 / Impact Factor – 1.151, <https://doi.org/10.1088/2053-1591/ab1cd3>
- Tribological performance evaluation of newly synthesized silane treated shell powders in friction composites
Materials Research Express (IOP) / Mater. Res. Express 6 (2019) 065317 / Impact Factor – 1.151, <https://doi.org/10.1088/2053-1591/ab08e0>
- Influence of Binder on Thermomechanical and Tribological Performance in Brake Pad
Tribology in Industry - Vol. 40, pp 654-669 / 2018 / Impact factor – 1.29 / [DOI: 10.24874/ti.2018.40.04.12](https://doi.org/10.24874/ti.2018.40.04.12)
- Development of an Automated and Dedicated Measuring System of Tube Dimensions Using 1d and 2d Laser Displacement Sensors
FME Transactions – Vol. 47/ pp 122-128 / 2019 / Impact Factor – 0.3 / [DOI: 10.5937/fmet1901122R](https://doi.org/10.5937/fmet1901122R)
- Characterizing the Compression Behavior of Al₂O₃ /Si₃N₄ Nano Sized Particulate Reinforced Ceramic Matrix Composites
Indian Journal of Science and Technology – Vol 9(42), [DOI: 10.17485/ijst/2016/v9i42/104586](https://doi.org/10.17485/ijst/2016/v9i42/104586), November 2016
- Industry Engagement in Outcome based Education through Technobation and Adjunct Faculty
4th World Summit on Accreditation, WOSA 2018 – Organized by National Board of Accreditation, India – September 2018
- A Review On The Materials Used For Bearing And Failure Behaviour
International Journal of Students Research in Technology & Management / Vol 1 (04) / pp 431-443 / August 2013, ISSN 2321-2543 / <https://giapjournals.com/index.php/ijstrtm/article/view/86>

- Fatigue Crack Growth behavior in structures
National Conference on “Trends and Development in Aeronautical and Avionics Engineering” at Adhiyamaan College of Engineering, Hosur, during 23 – 24 February 2012
- Characterization and Cohesive Zone Modelling of Adhesives and Bone Cements used in Prosthesis Fixation Surgeries
National Conference on Emerging trends in Mechanical Engineering (NCETME’17), March 16, 2017 at Meenakshi Sundararajan Engineering College, Chennai.

Patents

- Indian Patent filed under the title of **“Water Tank Cleaning Device”** – Application number - **201841037676**

Consultancy works

- **Design and Analysis of Blower for Dust test Chamber for CM Envirosystems, Bangalore** through **Apex design center, Coimbatore** during – **July to November 2018**

Seminar, Workshops and Faculty Development Program

- Two weeks **ISTE workshop** on **“Engineering Mechanics”** conducted by IIT Bombay – 26.11.2013 to 06.12.2013
- One Week **GIAN** Faculty Development program on **“Innovative Digital Tools Enabled Product Design”** at IIT Chennai – 05.02.2018 to 09.02.2018
- One Week **GIAN** Faculty Development program on **“Dynamic Response of Advanced Composites”** at NITK Surathkal – 10.12.2018 to 15.12.2018
- Two days **DST-SERB Sponsored National Level Seminar** on **“Challenges in Materials for Energy Conversion, Storage and Enhancement Applications”** at National Engineering College, Kovilpatti
- AICTE Sponsored Seminar on **“Futuristic Automotive Concept Design and Styling”** at PSG College of Technology, 10 – 11 January 2014

- Three days workshop on “**Thermal system modelling using MATLAB and Computational Fluid Dynamics Analysis using fluent software**” 23-25 January 2012.
- One day workshop on “**Mechatronics**” at Government College of Engineering, Tirunelveli on 14.07.2012

Achievements

- Completed a **NewGen IEDC funded Project** on Product Design and Development and Filled a **Patent** titled “**Water Tank Cleaning Device**” – **Patent Application Number : 201841037676**
- Have trained 18 students in **ICAM Toulouse, France** for 30 days regarding student exchange program while working in Loyola-ICAM College of Engineering and Technology - Chennai.
- Handled classes for **Overseas students (French National)** on “**Sizing of Solids**” – **Duration – 6 months**
- Certified as **Best Teacher** while working in Loyola-ICAM College of Engineering and Technology, Chennai.
- Certified as **Topper** with Elite category in **NPTEL** course on “**Fundamentals of Materials Processing - I**”
- Certified with Elite category in **NPTEL** course on “ **Manufacturing of Composites**”
- Certified with Elite category in **NPTEL** course on “**Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations**”

Personal Information

Date of birth : 11- 05- 1988

Age : 30

Gender : Male

Nationality : Indian

Hobbies and interests : Reading books and news paper, Listening songs, Watching movies