

KARTHIK RAJASHEKAR KAVURI

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Objective

A growth oriented and challenging position in a progressive organization where my skill will be utilized in the best way with a scope of learning, innovation and career development.

Work Experience

Assistant Professor 26/12/2013 – Present
M.V.S.R Engineering College Nadergul, Hyderabad

- Guide, lead and mentor students in research projects.
- Develop professional logistics to improvise student performance.
- Evaluate, monitor student academic progress.
- Create, innovate and implement career-enhancement programs and activities.
- Participate in departmental and college activities.
- Serve and support functional activities of departmental committees.
- Assist and support senior professors in their day-to-day tasks and functions

Research Interests

- Mechanics and Vibrations
- Composite Materials
- Finite Element Methods
- Modeling of Visco-elastic materials

Subjects Handled

- CAD/CAM
- Kinematics of Machines
- Engineering Mechanics
- Engineering Graphics
- Computer aided Mechanical Design and Analysis (P.G)
- Computer Aided Modeling & Design (P.G)
- Failure Analysis and Design (P.G)
- Machine Drawing
- Production Drawing
- Mechanical Technology
- CAD/CAM lab (U.G & P.G)
- CAPD Lab
- Computational Lab
- MCMT Lab
- Production Technology Lab.
- CAE Lab
- Engineering workshop

Consultancy Projects

1. Design and Analysis of Composite Monopole Subjected to Wind Pressure for M/S CNC Technics Pvt.Ltd.
2. Design and Analysis of FRP Filament wound Pressure vessel for M/S CNC Technics Pvt.Ltd.
3. Design and Analysis of Filament wound Pressure vessel for M/S Shalin Composites Pvt.Ltd.
4. Design and Analysis of Smart Pole M/S Shalin Composites Pvt.Ltd.

Roles and Responsibilities:

1. Analyze project requirements and perform technical calculations supporting design including FEA
2. Contributing to overall project objectives
3. Providing expertise
4. Documenting the process

Publications

1. Published a paper on **“Study on Structural and Thermal analysis of Composite Disk Brake”** at International Journal of Science and Innovative Engineering & Technology.
2. Published a paper at National conference on Advances in Information Technology on the topic **“Computational Approaches in Design and simulations of Type-4 CNG Pressure Bottles in accordance with ISO 11439:2000€ for Automobile applications”**.
3. Published a paper at National conference on Advanced materials on the topic **“Theoretical and computer simulations of Vibration Analysis on Fiber-Reinforced Composite Beam”**.
4. Published a paper on **“Design, Analysis and Testing of a composite cylinder for Conductive polymer applications”** at National conference Recent Innovations in Mechanical Engineering.

Workshops/Conferences Attended

1. Presented a paper at National Conference on **“Recent innovations in Mechanical Engineering (RIME 2014)”** conducted during 21- 22 Nov 2014 at MVSREC, Hyderabad.
2. One day workshop on **“Tribology”** organized by C.V.S.R Engineering College, Hyderabad on 30th October 2015.
3. A Three day workshop on **“Computational methods in Fluid Dynamics”** organized by MVSREC, Hyderabad from 16-18 Dec 2015.
4. A Five day workshop on “Control system theory” organized by MVSREC, Hyderabad from 16-18 Dec 2015.
5. A one week workshop on **“Engineering Mechanics”** organized by MVSREC, Hyderabad on 18-24 June 2016.
6. A National conference on **“Advances in Information Technology”** organized by Department of IT MVSREC, Hyderabad from 22-23 June 2016.
7. A workshop on **“Behavior of Composites”** organized by C.V.R College of Engineering from 23-24 Dec 2016.
8. A One week Faculty Development Programme on **“Finite element applications in Mechanical and civil engineering (FEAMCE 2017)”** organized by CBIT, Hyderabad from 23-28 Jan 2017.
9. Presented a paper at “7th International Conference on Recent Engineering and Technology” organized by MEC, Hyderabad on 7th April 2017.
10. Attended a Two day National Level workshop on **“Applied numerical methods and optimization Techniques in Engineering”** conducted by Faculty of Mathematics, Department of Sciences & Humanities MVSREC, Hyderabad.
11. A Five day Faculty Development Programme on **“Recent Trends in Mechanical & Industrial Engineering” (RTMIE-2017)** conducted by the during 11-15 December 2017 by MVSREC, Hyderabad.

Academic Qualifications

| Course | University | Branch | Year of passing | % Marks |
|--------------|-------------------------------------|------------------------|-----------------|---------|
| M.E | Osmania University | CAD/CAM | 2013 | 76.4 |
| B. Tech | J.N.T.U | Mechanical Engineering | 2011 | 76.88 |
| Intermediate | Board of Intermediate Education,A.P | M.P.C | 2007 | 72.8 |

Skill Sets

- Working knowledge of AutoCAD, SOLIDWORKS, CATIA, ANSYS and MATLAB.
- Adept problem-solver who stays calm at pressure.
- Clear and concise communicator.
- Ability of collaborate among a variety of groups and personalities.

Achievements

- Achieved **Gold Medal** in M.E (for the highest percentage amongst the graduating class).
- Received Certificate of Appreciation from college for my performance in Academics.
- Presented Technical papers at National and international conferences
- Attended various Workshops & Conferences

Extracurricular Activities

- Delivered a Guest lecture at “Two week Training program on Design, Modeling and Analysis Aspects of Mechanical and Automobile Components” using CATIA software tool

Declaration

I hereby declare that the information above is true to the best of my knowledge.

Date: 08-08-2018

Place: Hyderabad

(K. Karthik Rajashekar)