

Purushottam Karthik Janaswamy

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Research and Development

I am an experienced Assistant Professor in mechanical engineering with 11 years at R.V.R.&J.C.College of Engineering. My expertise spans AutoCAD, Matlab, Stress Analysis, Microsoft Excel, Product Design, and Research & Development. I hold an M.Tech in CAD/CAM and a Ph.D. focused on coal water slurry preparation with Scopus & SCI/SCIE publications. I'm seeking opportunities to further develop my skills. Additionally, serving as an SAE faculty advisor, I guide projects involving numerical and simulation aspects in design, especially in renewable energy and the automotive sector. I excel in handling technofunctional and materials work across various engineering fields, including the biomedical side.

WORK EXPERIENCE

R.V.R. & J.C. College of Engineering • 01/2013 - Present

SAE FACULTY ADVISOR

RVR&JC COLLEGE OF ENGINEERING • Guntur Area, India • 07/2012 - Present

Assistant Professor

Self-employed • Guntur Area, India • 05/2011 - Present

Tutor

EDUCATION

Doctor of Philosophy - PhD in Power plant

Annamalai University • 01/2018 - 12/2024

Skills: Communication • Problem Solving • Research Development • Product Design • English

Master of Technology (M.Tech.) in CAD/CAM

acharya nagarjuna university • GPA: 70 • 01/2010 - 12/2012

Skills: Problem Solving • ANSYS • Catia • Product Design

Bachelor of Technology (BTech) in Industrial production engineering

Acharya Nagarjuna University • 01/2005 - 12/2009

Skills: Stress Analysis • Educational Services • Research Development • Matlab

CERTIFICATIONS

All India Council for Technical Skill Development (AICTSD)

Government of India, Ministry of MSME Certified

MATLAB Onramp

MathWorks

Machine Learning Onramp

MathWorks

R Programming A-Z™: R For Data Science With Real Exercises

Udemy

DESIGN OF EXPERIMENTS AN ENGINEERING PRESPECTIVE

JAER

Material Science and Engineering

Udemy

OpenFOAM Intermedia

udemy

Structuring your article correctly

Researcher Academy ELSEVIER

A Hands-on Introduction to Engineering Simulations

Cornell University

PMKvy

National Skill Development Corporation

AWARDS & SCHOLARSHIPS

Humanoid Robot: Intelligent Humanoid Robot That Includes A Torso, A Pair An Arms, Two Hands, A Neck, Head, And Logic

PROJECTS

EVALUATION AND OPTIMISATION OF PROCESS PARAMETERS FOR AGITATION IN CONCRETE MIXING •

06/2020 - 08/2024

Design Tribe (India) Pvt. Ltd

Evaluation and optimization of process parameters during heat transfer of coal water slurry used in coal gasification plant •

01/2019 - 01/2020

R.V.R &J.C College of Engineering

VOLUNTEERING & LEADERSHIP

R.V.R &J.C College of Engineering • 07/2020 - Present

Research & Development • Guntur, Andhara Pradesh

R.V.R &J.C College of Engineering • 07/2012 - Present

Training & Placement • Guntur, Andhara Pradesh

PUBLICATIONS

MAXIMIZATION OF POWER THROUGH METAHEURISTIC TECHNIQUE IN THE DESIGN OF A JACKETED VESSEL MIXING SOLID-LIQUID PHASES •

04/2023

Iranian Institute of Research and Development in Chemical Industries (IRDCI)-ACECR

Reliability based design of propeller and Rushton impellers for maximizing the overall heat transfer coefficient in coal gasification •

04/2023

SAGE PUBLICATION

Investigation on pH influence for the effective transportation of coal water slurry using experimental design

International Journal of Coal Preparation and Utilization

Optimization of process parameters for preparation of coal water slurry using ant colony optimization and hydrodynamic simulation

International Journal of Coal Preparation and Utilization

PREPARATION OF COAL WATER SLURRY USING AGITATION PARAMETERS

INVOLVED AND THEIR INFLUENCE-A REVIEW

Sigma journal of Engineering and Natural sciences

DESIGN, ANALYSIS AND OPTIMIZATION OF A HIP JOINT

Compliance Engineering Journal

Influence of Parameters in Coal Water Slurry Mixing used for Gasification in Power Plant

International Journal of Recent Technology and Engineering (IJRTE)

Life Prediction of Spur Gear Under Fully Reversed Loading Using Total Life Approach and Crack-Initiation Method in FEM

Aksaray University Journal of Science and Engineering

OPTIMIZATION OF MULTIPLE PERFORMANCE CHARACTERISTICS OF FRICTION STIR WELDING JOINT WITH GREY RELATION ANALYSIS

Application of Taguchi Technique to Study the Mechanical Behaviour of Friction Stir Welded Aluminum Alloy AA8011

IJEDR

Characterization of Mechanical Properties of Al alloy MMC

International Journal of Research

DESIGN AND OPTIMIZATION OF METAL MATRIX COMPOSITE (MMC'S) SPUR GEAR

ADMT

DESIGN AND OPTIMIZATION OF LOCOMOTIVE SUSPENSION SYSTEM USING ANT COLONY OPTIMIZATION"

Assessment and Comparison of Fatigue Life for Heavy Truck Wheel Rim Under Fully Reverse Loading for Aluminium Alloys

International Journal of Applied Science and Engineering

PREDICTION OF LEAF SPRING PARAMETERS USING ARTIFICIAL NEURAL NETWORKS

International Journal of Engineering Science and Technology (IJEST),

Life Assessment of a Parabolic Spring Under Cycle Stress & Cycle Strain Loading Using Finite Element Method

International Journal of Mechanical and Industrial Engineering

FATIGUE LIFE PREDICTION OF PARABOLIC SPRING: USING FINITE ELEMENT METHOD

LAMBERT ACADEMIC PUBLISHING

SKILLS

Abaqus, Administration, Ansys, ANSYS, AutoCAD, Automotive Engineering, C, CAD, Catia, Character Development, Communication, Counseling Psychology, Curriculum Development, Design, Education, Educational Services, Employee Benefits, Engineering, English, Finite Element Analysis, Hands on introduction to engineering simulation, Hypermesh, Management, Manufacturing, Matlab, Mechanical Engineering, Microsoft Excel, Microsoft Office, Microsoft PowerPoint, Microsoft Word, PowerPoint, Powertrain, Problem Solving, Product Design, PTC Creo, Public Speaking, Record Keeping, Research, Research Development, Simulations, Simulink, Skill Development, SolidWorks, Stateflow, Stress Analysis, Team Management, Tests, University Teaching, User Experience (UX), User Interface Design, Automotive Sector, Bio-Medical, Design, Innovations, Simulation