

BIO-DATA / CV

Name and Full Correspondence Address KUMAR RAJA MAILAPILLI
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Institution CHAITANYA ENGINEERING COLLEGE

Date of Birth 30/12/1994

Gender (M/F/T) MALE

Category (Gen/SC/ST/OBC) OBC

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Academic Qualifications (Undergraduate Onwards)

Degree	Year	Subject	University/Institution	%/CGPA
M.Tech	2017-2019	INDUSTRIAL METALLURGY	ANDHRA UNIVERSITY	8.28
B.Tech	2014-2017	MATERIAL SCIENCE & METALLURGY	JNTU-H	70.77
DIPLOMA	2010-2014	METALLURGY	METALLURGY	72.89

Ph.D. Details

Institute	Guide(s)	Year of Award	Ph.D. Thesis Title
IIT(ISM) DHANBAD	Dr. KESAVAN RAVI	Pursuing	Hydroxyapatite Coating on Biodegradable Magnesium-Based Alloys for Biomedical Implant Applications.

Work Experience (Chronological Order)

S.No	Position	Institute	From	To
1	Assistant Professor	Chaitanya Engineering College	June 2023	Present
2	Assistant Professor	Sanketika Vidya Parishad Engineering College	March 2022	June 2023
3	QA/QC Engineer	KALVA Engineers Pvt. Ltd.,	Sept 2019	March 2022
4	Part-Time Lecturer	Government Polytechnic	May 2017	Nov 2017

Professional Recognition / Awards

S.No	Award Name	Year
1	Invited as Guest Speaker – Government Polytechnic, Visakhapatnam	2025
2	Invited as Guest Speaker – Anil Neerukonda Institute of Technology & Sciences, Visakhapatnam.	2024
3	1 st Prize in Oral Presentation – Advanced Materials and Processes, BTTD, CSIR-NML, Jamshedpur	2023
4	Secured State 8th Rank (Metallurgy) in AP PGCET	2017
5	Best Paper Award – Thermoelectric Properties of Ti _{1-x} TaxNiSn, ISRS, IIT Madras	2016
6	State 22nd Rank (Metallurgy) in AP ECET	2014

Publications

S.No	Authors	Title	Journal	Volume/Page	Year
1	Chebolu Rajesh Kumar, Sabbi Jayadev Yadav, Barri Pola Raju, Egala Vamsi, Mailapilli Kumar Raja	Sustainable Corrosion Protection Using Recycled Plastic-Resin Coatings for Marine Applications	IJSREM	Vol 09, Issue 12	2025
2	Mailapilli Kumar Raja , K E R V Prasad, A Prasanna Devi, BAMBA Kumar, A. Aparna Devi	Unleashing The Mechanical Properties of Synthesized HAp (Eggshell) Particulates Reinforced in Biodegradable Polymer Composites	IRJET	Vol 10, pp 1155–1164	2023
3	Mailapali Kumar Raja , Jarajapu Naveen Kumar, Boddeda Poorna Chandu, et al.	Topology Optimization of a Steering Knuckle	IJFMR	Vol 5, Issue 2	2023
4	Mailapilli Kumar Raja , Chavakula Naga Venkata Srikar, Jalumuri Sai Kumar	Evaluation of Mechanical Properties of Bio-degradable Hybrid Particulate Fibre Reinforced Polymer Composite	IJFMR	Vol 5, Issue 2	2023
5	Mailapilli Kumar Raja , K Supraja, Gowsiya Sk, Sk Sameer, K Sai Sunanda	Study on Physical and Mechanical Properties of GBF Slag Reinforced Carbon Polymer Composites	IJFMR	Vol 5, Issue 2	2023
6	Gandepally Srinivasa Rao, Mailapilli Kumar Raja	Taguchi Method Used in Turning Operation with Different Parameters	IRJET		2023
7	L. Prasad, B. Yuva Kiran, S. Lava Kumar, T. Venkat Reddy, T. Tarun Kumar, M. Kumar Raja	Design & Fabrication of Solar Tracking System	IRJET	Vol 3, No 5, pp 252–257	2022
8	I. Gopi Lakshmi, Y. Ravi Kanth, M. Kumar Raja et al.	Dry Sliding Wear Behaviour of Micro and Nano High Entropy Fe-Cr Slag Particulates Reinforced AA 7075 Composites	Material s Today Proceedi ngs	Vol 3, pp 1193–1205	2020
9	Anirudha Karati, M. Kumar Raja et al.	Thermoelectric Properties on Nanocrystalline Ti _{1-x} TaxNiSn (x=0, 0.01, 0.03, 0.05) Synthesized by Mechanical Alloying	ISRS, IIT Madras		2016

Technical Skills

Characterization Tools:	XRD, SEM, FTIR, Optical Microscopy, Microstructural Analysis
Processing Techniques:	Stir Casting, High-Energy Ball Milling, EDM, WHIMS, Hydro Cyclone, LPCS.
Software:	Origin, ImageJ, X-pert High Score
Mechanical Testing:	UTM, Wear Testing, Hardness Testing (Vickers, Rockwell, Brinell)

FDPs & Certifications

S.No	Program / Certification	Organization	Year
1	Performance of an Internal Combustion Engine using Alternate Fuels and CFD Analysis	Godavari Institute of Engineering & Technology	2025
2	Importance of Hydrogen as an Alternative Fuel in Automotives on (VAANI)	Godavari Global University	2025
3	Clean Mobility Revolution: Electric & Hydrogen-Powered Vehicles	Godavari Global University	2025
4	Outcome-Based Education	IIT Madras, Chennai	2024
5	Smart Diagnostics: AI and Machine Learning for Vibration Analysis in Machinery and Structures	Gayatri Vidya Parishad College of Engineering	2024
6	Innovations in Energy, Environmental Sustainability & Material Science	Sri Ranganathar Institute of Engineering & Technology	2023
7	Research Methodology	MMTTC, Shri Ram College of Commerce	2023
8	Cloud Infrastructure	Vignan's Institute of Information Technology	2023
9	Outcome-Based Education	IIT Madras	2024
10	Nanostructured Materials	JNTU-GV College of Engineering, Vizianagaram (CEV)	2022
11	Advances in Materials Processing & Additive Manufacturing	IIITDM Jabalpur	2022
12	ASNT Level II Certification in NDT (UT, MT, PT, RT)	ASNT (American Society for Nondestructive Testing)	2014

Professional Memberships

S.No	Organization	Membership Type	Year
1	Powder Metallurgy Association of India (PMI)	Life Member	-
2	International Association of Engineers (IAENG)	Annual	2023