

# RESUME



M Rajesh,  
#A3/2 Quarters,  
JNTUACEP Campus Staff Quarters  
Pulivendula, Kadapa(D), Andhra Pradesh,  
516390, INDIA.

Mobile No: +91-8500427851.  
E-Mail ID: rajesh.me@jntua.ac.in

## Profile and Career Objective:

Highly motivated Masters graduate seeking a challenging position, utilizing my abilities developed through my education and experience with an opportunity for career growth based on my merit and to promote the growth of the organization.

## Teaching Experience:

Having 10 years of teaching experience, currently working as an Assistant Professor (Adhoc) in the Department of Mechanical Engineering from September 2013 to till date at Jawaharlal Nehru Technological University Anantapur College of Engineering Pulivendula, Kadapa (D), Andhra Pradesh.

## Publications:

1. Published a paper with title as "Design, Analysis and Fabrication of Vertical Axis Wind Mill" in "IJMETMR" International Journal & Magazine of Engineering, Technology, Management and Research, ISSN No: 2320-3708 (Print), ISSN No: 2348-4845 (Online), Vol: 02, July 2015, page number: 292-295.
2. Published a paper with title as "Experimental Study and Simulation Analysis on Thermal Loses of a Solar Parabolic Collector in "AIJREAS" Anveshana's International Journal of Research in Engineering and Applied Sciences, (ISSN - 2455-6300), Volume 2, Issue 5 (2017, May), page number: 32-38
3. Published a paper with title as "Development of Vertical Axis Wind Turbine with Multi-Directional Nozzle" in "IJAERD" International Journal of Advance Engineering and Research Development, with Scientific Journal of Impact Factor (SHIF): 4.72, (e-ISSN: 2348-4470, (Print), ISSN: 2348-6406), Volume 04, Issue 12, December 2017, page number: 27-33.
4. Published a paper with title as "Design, Fabrication & Analysis of Exoskeleton - The Chair less Chair using Aluminum Alloy (T6) 6082" in American International Journal of Research in Science, Technology, Engineering & Mathematics (AIJRSTEM) ISSN (Print): 2328-3491, ISSN (Online): 2328-3580, ISSN (CD-ROM): 2328-3629 in September- November -2018 page number 17-21
5. Published a paper with title as "Design & Fabrication Of 3d Printed Ear Prothesis for Microtia & Anotia by Using Silicon Rubber Material" in "IJTIMES" International Journal of Technical Innovation in Modern Engineering & Science (e-ISSN: 2455-2585, Volume 4, Issue 10, October-2018-page number 233-241.

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6. Published a paper with title as “Hip Joint Ct Scan Data to Fabrication Process Using 3d Printing Machine for Demonstration of Medical Purpose” in “IJTIMES” International Journal of Technical Innovation in Modern Engineering & Science (e-ISSN: 2455-2585, Volume 4, Issue 12, December-2018-page number 208-215
7. Published a Scopus paper with title as “Fabrication of Automated Four-Way Hack Saw Machine by using Scotch Yoke Mechanism’ in ‘International Journal of Engineering and Advanced Technology (IJEAT)’, ISSN: 2249-8958 (Online), Volume-9 Issue-I, October 2019, Page No.6081-6087. The B Impact Factor of IJEAT is 5.97 for year 2018. Your published paper and Souvenir are available at: <http://www.ijeat.org/download/volume-9-issue-I/>  
DOI: 10.35940/ijeat.AI955.I09119
8. Published a paper with title as “Development and Properties evaluation of Areca Fiber Reinforced Composite Material” in Mukta Shabd Journal UGC Care Group – I journal with ISSN No: 2347-3150 with impact factor 4.6 Published on June 2021, Volume X, Issue VI, DOI: 09.0014.MSJ
9. Published a paper with title as “Spectrum Sensing Using Cumulative Sum Algorithm” in Mukta Shabd Journal UGC Care Group – I journal with ISSN No: 2347-3150 with impact factor 4.6 Published on August 2022, Volume XI, Issue VIII, DOI: 09.0014.MSJ
10. Published a paper with title as “A Novel Approach for Breast Tumour Detection and Segmentation from MRI Images Using Image Processing Techniques” in Research and Applications: Embedded system in with ISSN: 2582-2993, Published on June 2023, Volume 6, Issue No 2, HBR publications.  
<http://hbrppublication.com/OJS/index.php/RAES/article/view/3448>

### **Conferences:**

1. Presented a paper with titled as “Design and Structural and Thermal Analysis on Rail Wheel and Axle” in National Level Conference on Trends in Mechanical Engineering (TIME’15) Organized by Department Mechanical Engineering at JNTUA College of Engineering (Autonomous) Ananthapuramu.
2. Presented a paper with titled as “Design, Modeling and Analysis of Two Bottom Reversible Plough” in National Conference on Emerging Trends in Mechanical Engineering (NC e-TIME’16) 14<sup>th</sup> July 2016 Organized by Department Mechanical Engineering at JNTUA College of Engineering (Autonomous) Ananthapuramu.
3. Presented a paper with titled as “Design, Design and Fabrication of Solar Tricycle for Handicapped Person” in National Conference on Emerging Trends in Mechanical Engineering (NC e-TIME’16) 14<sup>th</sup> July 2016 Organized by Department Mechanical Engineering at JNTUA College of Engineering (Autonomous) Ananthapuramu.
4. Presented a paper with titled as “Design and Fabrication of Solar Tricycle for Handicapped Person” in NSMERS National Symposium of Mechanical Engineering Research Scholars Organized by Department of Mechanical Engineering on 7th October 2016 at NIT Warangal.

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## Workshop Organized:

1. Organized A Two-day National workshop an “ADVANCED TOPICS” on 3D-Printing Technology, Vehicle diagnosis Test, 6- Axis Aristo Robot & Work Space in the Department of Mechanical Engineering at JNTUA College of Engineering (Autonomous) Pulivendula during 9<sup>th</sup> September 2017 to 10<sup>th</sup> September 2017.
2. Organized A Three-day Faculty development programme on “Engineering Graphics Through AutoCAD software” Jointly organized by Team ROBOGYAN 2K23, in the Department of Mechanical Engineering at JNTUA College of Engineering (Autonomous) Pulivendula during 21<sup>st</sup> April 2023 to 23<sup>rd</sup> April 2023

## Workshops Participated:

1. Participated a “FDP on AUTO CADD 2011” at JNTUA College of Engineering Pulivendula during 22<sup>nd</sup> to 25<sup>th</sup> November 2011
2. Participated in A Three-day Faculty Development Programme (FDP) on “CFD APPLICATIONS USING STAR CCM+” during 16<sup>th</sup> to 18<sup>th</sup> January 2014 at JNTUA College of Engineering Pulivendula
3. Participated in A Three-day (FDP) Faculty Development Programme on “APPLICATIONS OF FINITE ELEMENT METHODS THROUGH ANSYS SOFTWARE” at JNTUACE Pulivendula under TEQIP – II during 20<sup>th</sup> – 22<sup>nd</sup> January 2014.
4. Participated in 5 days Faculty Development Programme on “Pedagogical Training Programme” Program Conducted at JNTUACE Pulivendula during 1<sup>st</sup> to 5<sup>th</sup> March 2014.
5. Participated in A Two-day National Level Workshop on “ADVANCED MANUFACTURING SYSTEMS SIMULATION-HANDS ON TRAINING THROUGH FLEX SIM SOFTWARE” during 8<sup>th</sup> to 9<sup>th</sup> September 2014 in Sri Vidhya Nikethan College of Engineering at Tirupathi, Andhra Pradesh
6. Participated in A National Level Workshop on “HUMAN VALUES AND PROFESSIONAL ETHICS” during 7<sup>th</sup> to 8<sup>th</sup> November 2014 at JNTUACE Pulivendula
7. Participated a Five-Day Short-Term Course on “SOLID AND SURFACE CAD MODELLING WITH CAM APPLICATIONS IN CNC MACHINING” during 19<sup>th</sup> to 23<sup>rd</sup> January 2015 at IIT Kharagpur, West Bengal Participated a Three-Day Training program on “ENTREPRENEURSHIP DEVELOPMENT” conducted at AU College of Engineering (Autonomous), Andhra University, and Vishakhapatnam during 16<sup>th</sup> to 18<sup>th</sup> December 2015 organized by ESCI, The Institution of Engineers (India).
8. Participated a Two-Day National Level Faculty Development Program on “ENTREPRENEURSHIP DEVELOPMENT INITIATIVE IN INDIA (EDII-16)”, in collaborated with IEEE Hyderabad, during 16<sup>th</sup> to 17<sup>th</sup> March 2016 at JNTUA College of Engineering (Autonomous) Pulivendula

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9. Participated in a Two-day National Workshop on “Composite Materials Characterization and its Application” Program Organized by the Department of Mechanical Engineering at JNTUACE (Autonomous) Pulivendula during 19<sup>th</sup> Oct 2016 to 20<sup>th</sup> Oct 2016
10. Participated in A National Level Workshop on “Teaching Dynamics for Engineering Faculty” organized by the Department of Humanities and Social Sciences, JNTUA College of Engineering (Autonomous) Pulivendula during 14<sup>th</sup> March 2017 to 15<sup>th</sup> March 2017
11. Participated in A Short-term Training program on “Paper and Article Writing with LATEX” organized by the Department of Electrical and Electronics Engineering, JNTUA College of Engineering (Autonomous) Pulivendula during 17<sup>th</sup> March 2017 to 19<sup>th</sup> March 2017.
12. Participated six days a Faculty Improvement Program (FIP) on “CATIA V5 R20” Organized by Engineering (APSSDC) Department of Skill Development, Entrepreneurship & Innovation, Government of Andhra Pradesh from 10 April 2017 to 15 April 2017 at N.B.K.R. Institute of Science & Technology, Nellore.
13. Participated four days a Faculty Development Program (FDP) on Product Development on 3D Experience Organized by Engineering (APSSDC) Department of Skill Development, Government of Andhra Pradesh from 26 Nov 2018 to 29 Nov 2018 K.S.R.M College of Engineering, Kadapa, Andhra Pradesh.
14. Participated One-week Online Faculty Development Programme on “Research Opportunities and Challenges in Manufacturing Sector” from 01<sup>st</sup> June 2020 to 06<sup>th</sup> June 2020 Organized by Department of Mechanical Engineering, SVET’s College of Engineering, Pandharpur, Maharashtra.
15. Participated in webinar series on “Everyone Can Do Quality Research – Talk 07 & 08: Insights on Quality Research” on 06<sup>th</sup> August 2020 & 13<sup>th</sup> August 2020, Organized by Internal Quality Assurance Cell (IQAC) and Research Forum.
16. Participated in Online International Workshop on “Emerging Trends in Mechanical, Aerospace & Robotics Engineering” (ETMARE-2021) from 07<sup>th</sup> July 2021 to 09<sup>th</sup> July 2021, Organized by Vellore Institute of Technology Bhopal.
17. Participated in a Five-day Online Elementary Faculty Development Programme on “Renewable Energy for Industrial & Domestic Application” from 06<sup>th</sup> September 2021 to 10<sup>th</sup> September 2021, AICTE Training and Learning (ATAL) Academy, Organized by Jawaharlal Nehru Technological University Anantapur College of Engineering Pulivendula.
18. Participated in a Five-day Online Elementary Faculty Development Programme on “Novel Materials and its applications” from 04<sup>th</sup> October 2021 to 08<sup>th</sup> October 2021, AICTE Training and Learning (ATAL) Academy, Organized by Jawaharlal Nehru Technological University Anantapur College of Engineering Pulivendula.
19. Participated A Three-day “Online Workshop on Composite Materials, Mechanics Computations and Application” on 05<sup>th</sup> January 2022 to 07<sup>th</sup> January 2022, Organized by Center for Innovation and Product Development (CIPD) at Vellore Institute of Technology Chennai.

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20. Participated One-week Online Faculty Development Programme on “Machine Learning Algorithms for Dead Time Systems (MLDTS), Organized by Department of Electronics and Communication Engineering, Geethanjali College of Engineering Technology, Hyderabad in associated with Indian Society for Technical Education, during 24<sup>th</sup> January 2022 to 29<sup>th</sup> January 2022.
21. Participated One-week Online Faculty Development Programme on “Artificial Intelligence/Machine Learning for Mechanical Engineering Problems” during 21<sup>st</sup> March 2022 to 26<sup>th</sup> March 2022, Organized by the Department of Mechanical Engineering, Shri Vishnu Engineering College for Women (Autonomous & NAAC ‘A’ Grade) Bhimavaram, West Godavari (D), Andhra Pradesh.
22. Participated in One day training programme organized by JNTUA, Ananthapuramu and Microsoft Corporation India in associated with Andhra Pradesh State Council of Higher Education under the Faculty Empowerment program on New Technologies in the area of “Microsoft Azure AI Fundamentals” on 21<sup>st</sup> June 2022.
23. Participated in One day training programme organized by JNTUA, Ananthapuramu and Microsoft Corporation India in associated with Andhra Pradesh State Council of Higher Education under the Faculty Empowerment program on New Technologies in the area of “Microsoft Security, Compliance, and Identity Fundamentals” on 22<sup>nd</sup> June 2022.
24. Participated One week workshop on “ECAD for Buildings” organized by Department of Electrical & Electronics Engineering as a part of skill course titled [Design of layouts for buildings] in association with Radiant Technologies from 10<sup>th</sup> October 2022 to 16<sup>th</sup> October 2022.

### Industrial Work Experience:

- ✚ I've worked as a Master Trainee (M. Tech Final Project) in Wipro infrastructure engineering at Hindupur during 17<sup>th</sup> Jan 2012 to 17<sup>th</sup> Sep 2012. A multistage hydraulic cylinder has been designed to meet the requirements of the lifting force shorten the stroke length increase the total stroke and grantee the supporting stability of the hydraulic cylinder. The multistage hydraulic cylinders have been designed specifically for tipping applications. The single acting multistage hydraulic cylinder is designed to empty the load progressively during in the tipping cycle.
- ✚ To perform design and analysis of single acting multistage hydraulic cylinder CAD/CAE software are used. The solid modeling of the single acting multistage hydraulic cylinder is modeled by using pro Engineer Wildfire 4.0 CAD software. And the supporting stability for meshing the model Ansys 12.0.I software is used.

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## Educational Qualifications:

| S. No | Qualification    | Specialization         | College  | University & State Board           | Year of Award |
|-------|------------------|------------------------|--|------------------------------------|---------------|
| 1.    | (Ph. D) Pursuing | Composite Material's   | Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology | Vel Tech, Chennai, Tamilnadu       | Pursuing      |
| 2.    | M. Tech          | CAD/CAM                | JNTUA College of Engineering Pulivendula                                   | JNTU Ananthapuramu, Andhra Pradesh | 2013          |
| 3.    | B. Tech          | Mechanical Engineering | R.G.M. College of Engineering& Tech. Nandyal, Kurnool (D)                  | JNTU Ananthapuramu, Andhra Pradesh | 2009          |

## Achievements:

- ✚ Received Appreciation Certificate out-off 100 participants in Faculty Improvement Program (FIP) on "CATIA V5 R20" Organized by Engineering (APSSDC) Department of Skill Development, Entrepreneurship & Innovation, Government of Andhra Pradesh from 10 April 2017 to 15 April 2017 at N.B.K.R. Institute of Science & Technology, Nellore, Andhra Pradesh.
- ✚ Participated in National level 5-days workshop as a CADD Trainee in R.G.M College of Engineering & Technology, at Nandyal, Kurnool (D), Andhra Pradesh.

## Skills:

Technical Skills: AutoCAD 2018, Catia V5 R20, Ansys I4.5, Fanuc CNC Programming

## Interpersonal Skills:

- ✚ Ability to rapidly build relationship and setup trust
- ✚ Ability to work as a part of team as well as independently

## Strengths:

I am very sincere to my works, am an optimistic person, punctual and I always need perfection in my works.

- ✚ Able to peer review co-worker's assessments to give detailed critical feedback.
- ✚ Extremely self-determined and highly motivated professional.
- ✚ Strong and quick acquiring of new technologies.
- ✚ Creating Positive attitude in work environment.
- ✚ Good interpersonal and communication skills.

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## Personal Details:

Full name: Murkur Rajesh  
Fathers name: Sri. M Subramanyam  
Mothers name: Smt. B. K. Venkateswari  
Date of birth: 1<sup>st</sup> July 1985  
Marital status: Married  
Nationality: Indian  
Religion: Hindu  
Languages known: Telugu, Hindi, English, & Kannda.  
Hobbies: Playing Chess, Cricket, Badminton & listening to music  
Permanent Address: M Rajesh S/O B K Venkateswari  
H. No 51-15a-44, S.B.I. Colony,  
T.I.F Campus, Baba Brundavan Nagar,  
Kurnool City, Andhra Pradesh- 518003.

## Declaration:

I hereby declare that the information and facts furnished here are true to the best of my knowledge and belief.

Date:

Place: Pulivendula.



(M. Rajesh)