

## CURRICULAM VITAE



### **Dr.Reddy Sreenivasulu**

(AICTE Faculty ID: 1- 466518419)

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<https://scholar.google.co.in/citations?user=IwgWkfQAAAAJ&hl=en>

[https://www.researchgate.net/profile/Reddy\\_Sreenivasulu](https://www.researchgate.net/profile/Reddy_Sreenivasulu)

<https://www.scopus.com/authid/detail.uri?authorId=55990728500>

Web of Science ResearcherID: [ABE-8165-2020](https://www.webofscience.com/wos/authorid/detail/ABE-8165-2020)

<https://vidwan.inflibnet.ac.in/profile/183978>

<https://publons.com/researcher/4047760/dr-reddy-sreenivasulu/>

#### **Educational Qualification:**

| Name of Degree                   | Board / University   | Year of Passing | Class                  |
|----------------------------------|--|-----------------|------------------------|
| Ph.D (Mechanical Engineering)    | University College of Engineering(A)<br>Andhra University, Visakhapatnam, A.P. | 2018            |                        |
| M.E. (Automation & Robotics)     | University College of Engineering(A)<br>,Osmania University, Hyderabad, A.P.   | 2003            | First with Distinction |
| B.Tech. (Mechanical Engineering) | Regional Engineering College, Warangal,<br>A.P. (NIT Warangal)                 | 1997            | First                  |

#### **Details of Doctoral Thesis:**

**Area of Thesis work:** Design of Experiments, Modelling, Simulation & Optimization of Machining Parameters

**Title of Thesis:** **INVESTIGATIONS ON BURR FORMATION IN DRILLING OF ALUMINIUM ALLOYS**

## **PATENTS: 01(published)**

**Title of the invention:** INL- HUMANOID ROBOT: INTELLIGENT HUMANOID ROBOT THAT INCLUDES A TORSO, A PAIR AN ARMS, TWO HANDS, A NECK, HEAD, AND LOGIC.

**Application No.** 202041051209 A

**Date of filing of Application:** 25/11/2020

**The Patent Office Journal No.** 49/2020 & **Publication Date:** 04/12/2020

### **Work Experience:**

#### **Industrial Experience: 01 Year**

Worked as Project Engineer at Virchow Laboratories Ltd., Hyderabad, Andhra Pradesh from 1997 to 1998.

#### **Teaching Experience: 20 Years**

Worked as Teaching Assistant in Mechanical Engineering at Bapatla Engineering College, Bapatla, Andhra Pradesh from 1998 to 2000. (17.10.1998 to 8.5.1999 & 17.1.2000 to 30.4.2000)

Worked as Assistant Professor in Mechanical Engineering at Jatipita College of Engineering, Adilabad, Andhra Pradesh from 14.8.2002 – 17.2.2005.

Worked as Assistant Professor in Mechanical Engineering at S.V.V.S.N. Engineering College, Ongole, Andhra Pradesh from 18.2.2005 – 05.06.2007.

Presently working as Assistant Professor in Mechanical Engineering in R.V.R. & J.C.College of Engineering, Guntur. A.P. since 06.06.2007 to till date.

### **Minor Project sanctioned: 01**

R.V.R & JCCE sanctioned Rs.50, 000/-for fabrication of Solar electric hybrid car

### **Project Works (UG/PG Level): 15 + 04**

- 1) Low cost automated deep drawing press using Hydraulic controllers.
- 2) Fabrication of experimental to determine heat transfer co-efficient of vertical plates due to free convection.
- 3) Fabrication of air survivalence vehicle.
- 4) Simulation of a Desired Trajectory for a 2 Link Planar Manipulator.
- 5) Design and Fabrication of Low Cost Automated Hydraulic Jack.
- 6) The Thermo - Performance study of automobile tube - core fin radiator using Nano fluids as engine coolant.
- 7) Optimization of Drilling Process Parameters with Multiple performance characteristics using Taguchi method and Grey relational analysis.
- 8) Optimization of Surface Roughness of Glass Fiber Reinforced Polymeric (GFRP) Composite Material in End Milling using Taguchi Design Method.
- 9) Joining of dissimilar alloy sheets (Al 6063&AISI 304) during resistance spot welding process: a feasibility study for automotive industry.
- 10) Design and Fabrication of Solar Human Hybrid Quadricycle – An Eco-friendly Vehicle.
- 11) Experimental investigation on influence of machining parameters during end milling on alluminium 6351-T6 alloy using Taguchi design method.

- 12) Multiple Performance Characteristics Optimization of Turning Parameters for Surface Roughness and Chip Reduction Coefficient during CNC Dry Turning of AA 6351-T6 Alloy using Utility Based Taguchi Approach: An Experimental Investigation.
- 13) Taguchi based Experimental Studies on Surface Roughness and Burr Formation during End Milling of Inconel 718 Super Alloys.
- 14) Parametric Design and Analysis of Four Wheeled Car Bumper Using CATIA & ANSYS
- 15) Modeling and Analysis of Helical Springs of Different Cross Sections using CATIA-V5R19 and ANSYS 16.0

#### **Post Graduate Level: 04**

- 1) An optimization approach for the path planning of Redundant Robot manipulator (external guidance).
- 2) Design and Analysis of a 4-Stroke single cylinder SI engine.
- 3) Investigation on Influence of drilling parameters on Thrust force, Torque and Surface Roughness during drilling of Alluminium alloys - Based on Taguchi Design of Experiments.
- 4) Influence of ZnO and SiC Micro Fillers on Mechanical Properties of E-Glass/Polyester Composites.

#### **Seminars / FDP / Workshops Attended: 24**

- 1) 2-Day workshop on Flexible Automation & Intelligent Manufacturing Systems at **Jatipita Engineering College, Adilabad** on 20-22, February, **2004**.
- 2) 1-Day Induction Training Programme conducted by ISTE for Young Teachers at **R.V.R. & J.C.College of Engineering, Guntur** on 25-26, July, **2008**.
- 3) AICTE sponsored National Seminar on Micro Machining at **R.V.R. & J.C.College of Engineering, Guntur**, Andhra Pradesh on 09-10, December, **2008**.
- 4) National Level 3-Day Workshop on Metaheuristics and their Applications in Design, Manufacturing and Materials conducted by the school of mechanical engineering, **Vignan University, Vadlamudi, Guntur**, Andhra Pradesh during 18-20 June, **2009**.
- 5) One Week Faculty Development Programme on Optimization and Reliability in Engineering and Design from 26<sup>th</sup>-30<sup>th</sup> November **2012**, organized by **VR Siddhartha Engineering College (Autonomous), Vijayawada**, Andhra Pradesh.
- 6) UGC sponsored National Seminar on Solar Energy Harvesting through Photo voltaic cells and Storage at **R.V.R. & J.C.College of Engineering (A), Guntur**, Andhra Pradesh on 21<sup>st</sup>-22<sup>nd</sup>, June, **2013**.
- 7) A 2-Day workshop on Recent Trends in Manufacturing Organized by Mechanical Engineering Department under TEQUIP-II at **Chitanya Bharathi Institute of Technology (CBIT), Hyderabad**, on 29-30, July, **2013**.
- 8) UGC sponsored National Seminar on Futuristic Trends of Nano Composites and their Fabrication (**FTNCF-2013**) at **R.V.R. & J.C.College of Engineering (A), Guntur**, Andhra Pradesh on 06-07, September, **2013**.
- 9) A 2-Day workshop on **Engineering Drawing** Organized by Mechanical Engineering Department under TEQUIP-II at **MallaReddy Engineering College(Autonomous), Secunderabad, Telangana State** on 12-13, September, **2014**.
- 10) A 1-Day Faculty Development Programme on **Recent Advances in Additive Manufacturing** Organized by Mechanical Engineering Department, **VR Siddhartha Engineering College(Autonomous), Vijayawada, Andhra Pradesh** on 18<sup>th</sup> October, **2014**.

- 11) A 2-Day Faculty Development Programme on **Finite Element Analysis** Organized by Mechanical Engineering Department under TEQUIP-II at **MallaReddy Engineering College(Autonomous), Secunderabad, Telangana State** on 20-21<sup>st</sup>, February,2015.
- 12) A 1-Day National Workshop on **Optimization Techniques with MATLAB** ,Organized by Department of Mathematics ,**VR Siddhartha Engineering College (Autonomous), Vijayawada, Andhra Pradesh** on 31st August,2015.
- 13) Two Days Work shop on Introduction to Robotics Conducted at CMR Engineering College, Hyderabad conducted by **e-Yantra team of IIT Bombay under the National Mission on Education through ICT (MHRD, Govt.of India)** from 16<sup>th</sup>November – 17<sup>th</sup> September, 2016.
- 14) Successfully completed **One week AICTE-ISTE** sponsored induction/ refresher programme on **“Research Methodology, Design and Analysis of Experiments”** conducted by Mechanical Engineering Department, **R.V.R&J.C.College of Engineering (A),Guntur, Andhra Pradesh** from 12<sup>th</sup> to 17<sup>th</sup> November 2018.
- 15) Successfully completed **Two week AICTE** Faculty Development Programme on **“Engineering Technologies and Challenges in Mechanical Engineering”** conducted by Mechanical Engineering Department, **R.V.R&J.C.College of Engineering (A),Guntur, Andhra Pradesh** from 21<sup>st</sup> to 02<sup>nd</sup> November 2019.
- 16) Successfully completed one week online FDP on **“Practical aspects of Finite element Analysis using ABAQUS”** organized by **APSSDC** from 18.04.2020 to 24.04.2020.
- 17) Successfully completed one week online FDP on **“Machine Learning and Deep Learning Applications in Engineering & Science”** (MLDLAES - 2020) organized by **Government College of Engineering, Karad, Maharashtra** held on 16.05.2020 - 20.05.2020.
- 18) Successfully completed online FDP on **“Design for Manufacturing and Assembly”** organized by **APSSDC** from 21.05.2020 to 23.05.2020.
- 19) Attended an online **“Faculty Programme on NBA”** with a passing score of 60% organized by **Bharati Vidyapeeth College of Engineering, Navi Mumbai** held on 10.05.2020.
- 20) Attended for one day online workshop on **“research scopes in composites materials”** organized by **Chennai Institute of Technology, Chennai** by eminent speakers from **IIT Madras** and **IIT Tirupathi** held on 14.05.2020.
- 21) Attended for one week online FDP on **“Research Trends in Mechanical Engineering”** organized by **Gudlavalleru Engineering College (Autonomous), Seshadri Rao Knowledge village** by eminent speakers from **IIT’s** and **NIT’s** during 15<sup>th</sup> -20<sup>th</sup> June 2020.
- 22) Attended an online Five day FDP on the theme **“Pedagogical Practices of New India under National Education Policy, 2020”** jointly organized by **Tripura University, Manipur University** and **Assam University** during October 7 to October 11, 2020.
- 23) Attended an online one week International Short Term Course on **“Current and Future Scope of Surface Coatings”** organized by Department of Chemical Engineering, **NIT, Jalandhar** during December 02 to December 06, 2020.
- 24) Participated and completed successfully under **AICTE Training and Learning (ATAL) Academy** online FDP on **“Green Technology & Sustainability Engineering”** organized by Department of Mechanical Engineering, **NIT, Raipur** during 8<sup>th</sup> to 12<sup>th</sup> December 2020.

### On-Line certificate courses successfully completed: 05

1. Two Week ISTE Work shop on Engineering Mechanics Conducted by **IIT Bombay under the National Mission on Education through ICT (MHRD, Govt.of India)** from 26<sup>th</sup>November – 06<sup>th</sup> December, 2013.
2. Participated as a team member online Task Based Training (**TBT-2016**) during September 23,2016 – January 13,2017 conducted as a part of Teacher Training Through the **e- Yantra Lab Setup Initiative (eLSI) by IIT Bombay under the National Mission on Education through ICT (MHRD, Govt.of India)** and awarded **Class A certificate** with a 6000/- honorarium for a team contains 4 members.
3. Passed with E-lite **NPTEL online certification** 12 week (July-Oct 2018) course on **“Intellectual Property”** conducted by IIT Madras.
4. Successfully completed FDP 101X (**Foundation Program in ICT for Education**) and 201X (**Pedagogy for Online and Blended Teaching-Learning Process**) conducted by **IIT Bombay** during 13<sup>th</sup> September-27<sup>th</sup> October,2018 & 30<sup>th</sup> October 2018 -7<sup>th</sup> January 2019.
5. Passed with E-lite **NPTEL online certification** 8 week (Aug-Oct 2019) course on **“Ethics in Engineering Practice”** conducted by IIT Kharagpur

### Details of Publications:

| International Journals | National Journals | International Conferences | National Conferences | Total |
|------------------------|-------------------|---------------------------|----------------------|-------|
| 49                     | 0                 | 11                        | 8                    | 68    |

### Papers Presented/ Published at National Conferences: 08

- 1) **Reddy Sreenivasulu**, Mandava Ravikumar presented & published a paper titled “Aero Space Applications of GFRP Composites: Review “ in the proceedings of National Conference on Innovative Paradigms in Engineering and Technologies (**NCIPET-2013**), Organized by SBJITM&R. **Nagpur** on **17<sup>th</sup> Feb, 2013,pp 12-15.**
- 2) S.Kalyana Chakravarthy, **Reddy Sreenivasulu**, Bhavani K.V. S, V.Rajendra Prasad ,Y.Redankamma published a paper titled “Study of Failure mode in Resistance spot welding of Al 2024 alloy and AISI304 Sheets” in the proceedings of National Conference on Frontiers in Mechanical Engineering (**FIME-2013**), Organized by Mechanical Engineering Department, **Moulana Azad National Institute of Technology ,Bhopal** on **29<sup>th</sup>-31<sup>st</sup>Aug, 2013, pp215-218,ISBN:978-93-83083-27-5.**
- 3) **Reddy Sreenivasulu**, V.Siva Ramakrishna, presented and published a paper titled “Optimization of Delamination Damage of GFRP Composite during End Milling using Taguchi Method, S/N ratio and ANOVA” in the Proceedings of the 4<sup>th</sup>National Conference on Advances in Mechanical Engineering, (**AIM-2013**) organized by **Vasavi College of Engineering (A) Hyderabad, A.P** on **7<sup>th</sup>-8<sup>th</sup> Nov 2013,pp 269-272, ISBN:978-93-82570-16-5**
- 4) **Reddy Sreenivasulu** and K.Lakshman etal, published a paper in the conference proceedings titled” prediction of surface roughness in end milling operation of aluminium 6351-T6 alloy using taguchi methodology” at **2<sup>nd</sup> National Conference on Design and Manufacturing for**

**Product Life Cycle (DPLC-2016)** organized by Department of Mechanical Engineering, **BITS Pilani, Hyderabad Campus** during March 19<sup>th</sup> – 20<sup>th</sup>, 2016.

- 5) Behara Venkata Sai Abhilash and **Reddy Sreenivasulu** published a paper in the conference abstract proceedings titled” Influence of drilling parameters on thrust force and torque during drilling of Alluminium 7075 Alloy” at **2<sup>nd</sup> National Conference on Recent Trends in Mechanical Engineering (NCRTME-2016)** organized by Department of Mechanical Engineering, **JNTUH, Kukatpally, Hyderabad** during April 28<sup>th</sup> – 29<sup>th</sup>, 2016.
- 6) Bhusam Bhargavi and **Reddy Sreenivasulu** published a paper in the conference proceedings titled” Overview on Hybrid Metal Matrix Composites (HMMC)”at **National Conference on Technological Advancements in Mechanical Engineering (TAME-2016)** organized by Department of Mechanical Engineering, **JNTUK, Kakinada** during 22<sup>nd</sup> – 23<sup>rd</sup> July, 2016, pp 104-106. **ISBN: 978-93-85100-57-4**
- 7) **Reddy Sreenivasulu** & K.Vijay kumar Reddy etal, published a paper in the conference proceedings titled” Effect of Cutting parameters on Surface Roughness and Chip Reduction Coefficient during CNC Turning of Aluminium 6351 T6 Alloy Utility Based Taguchi Approach at **National Conference on advances in materials and product design (AMPD 2017)** organized by Dept. of Mechanical Engineering, **SVNIT Surat** during March 10<sup>th</sup> – 11<sup>th</sup>, 2017. **ISBN: 978-93-5268-172-3.**
- 8) **Reddy Sreenivasulu**, Shaik Hidayath Hussain, Raga Veera Vineeth, Raavi RamaKrishna, Vijay Dasari, Pappala Suresh., presented and published a paper entitled ”**Some Investigations on End Milling of Inconel 718 Super alloys**” in the proceedings of National Conference on Recent Trends in Manufacturing held on **29<sup>th</sup> March,2018** organized by **College of Engineering(Autonomous), Andhra University, Visakhapatnam, Andhra Pradesh, INDIA.**

#### **Papers Presented/ Published at International Conferences: 11**

- 1) **Reddy Sreenivasulu** & Ch.Srinivasa Rao, presented and published a paper titled “Optimization of operating parameters to minimize burr size in drilling using taguchi method & grey relational analysis for A1 6061” in the proceedings of International Conference on Challenges on Mechanical engineering and Industrial management (**ICCOMIM - 2012** ), **MSRIT Bangalore** on **11-13 July2012, pp829-833,ISBN:978-93-82338-05-5.**
- 2) **Reddy Sreenivasulu** & Ch.Srinivasa Rao, presented a paper titled ”Experimental investigation on influence of Nano fluids in drilling of Al6061 alloy using Grey based-Taguchi Approach”, International Conference on Material Processing and Characterization (**ICMPC-2013**) conducted by **GRIET, Hyderabad** on **16-17 March 2013.**
- 3) **Reddy Sreenivasulu** & Ch.Srinivasa Rao, presented a paper titled ”Modeling and Optimization of Thrust Force and Torque during Drilling of Aluminum 6061 alloy using Taguchi-Grey Analysis Approach”, International Conference on Material Processing and Characterization (**ICMPC-2013**) conducted by **GRIET, Hyderabad** on **16-17 March 2013.**
- 4) **Reddy Sreenivasulu**, presented a paper titled “Optimization of Surface Roughness and Delamination Damage of GFRP Composite Material in End Milling using Taguchi Design Method and Artificial Neural Network” at International Conference on Design and Manufacturing, (**IconDM-2013**) organized by **Indian Institute of Information**

**Technology Design & Manufacturing (IITD&M), Kanchipuram, Chennai on 18-20 July 2013.**

- 5) **Reddy Sreenivasulu**, Valiveti Siva Ramakrishna, Ambati BabiReddy published a paper titled “Educating the Next Generation of Entrepreneurial Engineer in the development of Indian industry: Some Recommendations” in the proceedings of International Conference on “Next Generation Education for Entrepreneurial Engineers”, (**ICNGE<sup>3</sup>**) organized by **SR Engineering college (A) Warangal, A.P** on **10 -11 March 2014, pp 24-27, ISBN:819041649-9.**
- 6) **ReddySreenivasulu** presented and published a paper titled “Optimization of Machining Parameters during End Milling of GFRP Composites by Desirability Function Analysis using Taguchi Technique’ at **AIMTDR-2014** organized by **Indian Institute of Technology, Guwahati** on 12-14 December 2014, pp338-1 to338-7.
- 7) **ReddySreenivasulu**, G.SuryaTeja, A. Ajith Kumar, A. Venkata Rama Krishna, G. Vaishnavi, E.Dinesh Kumar, presented and published an abstract of a paper in the proceedings with titled “**Design and Fabrication of Solar Human Hybrid Quadricycle – An Eco-friendly Vehicle**” at International Conference on Environment and Energy-2014, **JNTU Hyderabad** on **15-17 December 2014, PP 53, ISBN: 978-93-81212-96-7.**
- 8) **Reddy Sreenivasulu & Ch.Srinivasa Rao**, presented and published a paper ID 352 titled “Optimization of Machining Parameters during Drilling of Aluminium 2014 Alloy using CATIAV5R19 and DEFORM-3D: Numerical Simulation and Experimental Validation” in the proceedings of **COPEX 10, 2017** organized by **IIT Madras** on 07-09 December 2017, pp833-836, ISBN: 978-93-80689-28-9.
- 9) **Reddy Sreenivasulu & Ch.Srinivasa Rao**, presented a paper titled “Modelling, Simulation and Experimental validation of Burr size in Drilling of Aluminium 6061 alloy” at 2nd International Conference on Materials Manufacturing and Design Engineering (**iCMMD 2017**) – 11<sup>th</sup> & 12<sup>th</sup> December, 2017 at **Marathwada Institute of Technology, Aurangabad, Maharashtra.**
- 10) **Reddy Sreenivasulu & Ch.Srinivasa Rao**, presented a paper titled ”Some investigations on drilling of Aluminium alloys from FEA based simulation using Deform-3D”.at 7<sup>th</sup> international & 28<sup>th</sup> All India Manufacturing Technology, Design and Research (**AIMTDR-2018**) conference 2018 during 13<sup>th</sup>-15<sup>th</sup> December 2018 organized by **College of Engineering Guindy, Anna University, Chennai.**
- 11) **Reddy Sreenivasulu** presented with a paper ID 7 titled” Smart materials for 4D printing: a review on developments, challenges and applications”, at First international conference on future technologies in manufacturing, automation , design & energy (**ICoFT2020 MADE@NITPY**) during 28<sup>th</sup> - 30<sup>th</sup> December 2020 organized by **National Institute of Technology Puducherry.**

**Papers Published in International Journals: 49 (SCOPUS – 04, WoS- 11)**

1. **Reddy Sreenivasulu & Ch.Srinivasa Rao**, Determination of Optimal Combination of Drilling Parameters to Minimize Burr Height and Thickness for Aluminum 6061 Alloy Using Grey Relational Analysis, **International Journal of Advances in Science and Technology** (ISSN:2229-5216), Vol 5 , No 4, PP 9-16, **October 2012. (Indexed by Google Scholar)**
2. **Reddy Sreenivasulu**, Simulation of Desired End point Trajectory for a 2 DOF Planar Manipulator, **International Journal of Advanced Scientific and Technical Research**

(ISSN:2249-9954), Issue 2 , Vol 5, PP 668-696, **October 2012. (Indexed by Google Scholar)**

3. **Reddy Sreenivasulu & Ch.Srinivasa Rao** , Application of Gray Relational Analysis for Surface Roughness and Roundness Error in Drilling of Al 6061 alloy, **International Journal of Lean Thinking** (ISSN:2146-0337) , Volume 3, Issue 2, PP 67-78, **December 2012. (Indexed by Google Scholar)**
4. **Reddy Sreenivasulu & Ch.Srinivasa Rao**, Design of Experiments based Grey Relational Analysis in Various Machining Processes - A Review, **Research Journal of Engineering Sciences** (International Science Congress Association) ISSN: 2278-9472, Vol. **2(1)**, PP 21-26, **January 2013. (Indexed by Google Scholar)**
5. **Reddy Sreenivasulu & Ch.Srinivasa Rao**, Application of Grey Based - Taguchi Method to Determine Multiple Performance Characteristics in Drilling of Aluminium Alloys – Review, **Research Journal of Engineering Sciences**(International Science Congress Association) ISSN:2278-9472, Vol. **2(3)**, PP 45-51, **March 2013. (Indexed by Google Scholar)**
6. **Reddy Sreenivasulu & Ch.Srinivasa Rao**, "Experimental investigation on influence of Nano fluids in drilling of Al6061 alloy using Grey based-Taguchi Approach", Special issue of **International journal of Advanced Materials Manufacturing& Characterization** (ISSN:2277-3886), Vol. **3(1)**, PP 407-412, **March, 2013.(Indexed by Cross Ref)**
7. **Reddy Sreenivasulu & Ch.Srinivasa Rao**, "Modeling and Optimization of Thrust Force and Torque during Drilling of Aluminum 6061 alloy using Taguchi-Grey Analysis Approach", Special issue of **International journal of Advanced Materials Manufacturing& Characterization** (ISSN:2277-3886),Vol. 3(1),PP 413-418,**March, 2013. (Indexed by Cross Ref)**
8. **Reddy Sreenivasulu**, Mandava Ravikumar "Aero Space Applications of GFRP Composites: Review' Special issue of **International journal of Mechanical Engineering Research** (IJMER), ISSN: 2249-0019, PP 10-14, Vol 3(1) Spl, **March 2013.**
9. **Reddy Sreenivasulu**, "Optimization of Surface Roughness and Delamination Damage of GFRP Composite Material in End Milling using Taguchi Design Method and Artificial Neural Network" **Procedia Engineering (Elsevier )** ISSN:1877-7058, Vol 64, pp785-794,**November 2013.(SCOPUS)**
10. **Reddy Sreenivasulu**, Goteti Chaitanya, Comparative Study on Resistance Spot Welding (RSW) and Friction Stir Welding (FSW) of dissimilar alloys: Review, **International Journal of Advanced Scientific and Technical Research** (ISSN:2249-9954), Issue3,Vol5, pp325-333,**Sept-Oct 2013.**
11. Goteti Chaitanya , **Reddy Sreenivasulu** ,NDT Techniques to Investigate Fracture in Continuous Fiber Reinforced Composite Structures- Review, **International Journal of Current Engineering and Technology**(ISSN:2277-4106),Vol3,No4 , pp1271-1275,**October 2013. (Indexed by Cross Ref)**
12. **Reddy Sreenivasulu**, Role of a Teacher in Educating the Engineer of 2020 towards becoming an Entrepreneur in the Development of Indian industry, **Techno Learn, an International Journal of Educational Technology** (ISSN: 2231-4105),Volume 3,Issue 2, PP 163 - 172, **December 2013, By New Delhi Publishers. (Indexed by Google Scholar)**
13. **Sreenivasulu Reddy** , Multi response Characteristics of Machining Parameters during Drilling of Alluminium 6061 alloy by Desirability Function Analysis using Taguchi Technique, **International Journal of Applied Sciences & Engineering** (IJASE) **October**



2013, Issue 2, Volume 1, pp 35 - 44 (ISSN:2321-0745) By New Delhi Publishers. **(Indexed by Google Scholar)**

14. **Reddy Sreenivasulu** ,Multi response Characteristics of Process Parameters during End Milling of GFRP using Grey-Based Taguchi Method, **Independent Journal of Management & Production** (ISSN:2236-269X) published in Volume 5,No2 February-May 2014, pp299-313.DOI: 10.14807/ijmp.v5i2.152. **(Indexed by Google Scholar) (WoS)**
15. **Reddy Sreenivasulu** , Joining of dissimilar alloy sheets (Al 6063&AISI 304) during resistance spot welding process: a feasibility study for automotive industry **Independent Journal of Management & Production** (ISSN:2236-269X) published in Vol 5,no4 (Oct-Dec 2014). Pp 966-983, DOI: 10.14807/ijmp.v5i4.231. **(Indexed by Google Scholar) (WoS)**
16. Chaitanya Goteti and **Sreenivasulu Reddy** , Influence of Fiber Volume Fraction, Fiber Angle and Hole Size on the Stress Concentration around the Circular Hole of an Orthotropic Lamina under unidirectional in Plane Loading, **International Journal of Applied Sciences & Engineering** (IJASE) April 2014, Volume 2, Issue 1, pp 1 - 12 (ISSN:2321-0745) By New Delhi Publishers. DOI No. 10.5958/2322-0465.2014.01112.5 **(Indexed by Google Scholar)**
17. **Reddy Sreenivasulu** and Goteti Chaitanya, Optimization of Machining Parameters and Material Selection during Drilling of Aluminium alloys – Review, **AKGEC International Journal of Engineering and Technology** (ISSN:0975-9514) published in Volume 5, No 2, pp 1-8, **July-December2014. (Indexed by Google Scholar)**
18. Goteti Chaitanya and **Reddy Sreenivasulu**, Design optimization of Tripod Truss: SLP Approach, **Independent Journal of Management & Production** (ISSN: 2236-269X) published in Volume 6, No 1 Jan-March 2015, PP83-92, DOI: 10.14807/ijmp.v6i1.252. **(Indexed by Google Scholar) (WoS)**
19. **Reddy Sreenivasulu**, “Optimization of Burr size, Surface Roughness and Circularity Deviation of Aluminium Alloy during Drilling using Taguchi Design Method, ANOVA and ANN” , **Independent Journal of Management & Production** (ISSN:2236-269X) published in Volume 6,No1 Jan - March 2015, pp 93-108.DOI: 10.14807/ijmp.v6i1.254. **(Indexed by Google Scholar) (WoS)**
20. **Reddy Sreenivasulu** and Goteti Chaitanya ,MADM Technique Integrated with Grey- based Taguchi method for Selection of Alluminium alloys to minimize deburring cost during Drilling, **Independent Journal of Management & Production** (ISSN:2236-269X) published in Volume 6,No2 **April - June 2015**, pp 464-477.DOI: 10.14807/ijmp.v6i2.283. **(Indexed by Google Scholar) (WoS)**
21. **Reddy Sreenivasulu** and Goteti Chaitanya, solar-electric hybrid eco friendly quike, **AKGEC International Journal of Engineering and Technology** (ISSN: 0975-514) published in Volume 6, No 2, pp17- 22, **July-December2015. (Indexed by Google Scholar)**
22. Ambati BabiReddy and **Reddy Sreenivasulu** , published a paper titled Design and Vibration mode analysis of a crankshaft for a Four stroke single cylinder petrol engine, **AKGEC International Journal of Engineering and Technology** (ISSN: 0975-9514) Vol.6,No2, pp 50 – 61, **July-December 2015. (Indexed by Google Scholar)**
23. Goteti Chaitanya and **Reddy Sreenivasulu**, Analysis of Non-circular members subjected to twisting loads: A finite difference approach, **Independent Journal of Management & Production** (ISSN: 2236-269X) published in Volume 6, No 3, PP 803-812, **July-Sept 2015,DOI:10.14807/ijmp.v6i3.323.(Indexed by Google Scholar) (WoS)**
24. **Reddy Sreenivasulu** and Chalamalasetti SrinivasaRao, published a paper titled Optimization of surface roughness, circularity deviation and selection of different alluminium

- alloys during drilling for automotive and aerospace industry, **Independent Journal of Management & Production** (ISSN:2236-269X) Volume 7,No2 **April - June 2016**, pp 413-430. DOI: 10.14807/ijmp.v7i2.414. **(Indexed by Google Scholar) (WoS)**
25. **Reddy Sreenivasulu** and Chalamalasetti SrinivasaRao, published a paper titled Overview on Burr Formation, Simulation and Experimental Investigation of Burr size based on Taguchi Design of Experiments during Drilling of Alluminium 7075 Alloy, **AKGEC International Journal of Engineering and Technology** (ISSN: 0975-9514) Vol.7,No1, pp 24 – 30, **Jan-June 2016. (Indexed by Google Scholar)**
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  28. **Reddy Sreenivasulu** published a paper titled “Taguchi based optimization for surface roughness and chip thickness during end milling process on aluminium 6351-T6 alloy” **Independent Journal of Management & Production** (ISSN: 2236-269X) Volume 7, No4, **Oct - Dec 2016**, pp 1212-1226. DOI: 10.14807/ijmp.v7i4.486. **(Indexed by Google Scholar) (WoS)**
  29. **Reddy Sreenivasulu & Ch.Srinivasa Rao** , published a paper titled “Prediction of burr size in Drilling operation of AL 2014 Alloy using Taguchi Design Method” **International Journal of Lean Thinking** (ISSN:2146-0337) , Volume7 , Issue 2, PP 47-56, **December 2016. (Indexed by Google Scholar)**
  30. Goteti Chaitanya and **Reddy Sreenivasulu**, published a paper titled “Genetic Algorithm Based Optimization of a two link Planar Robot Manipulator” **International Journal of Lean Thinking** (ISSN:2146-0337) , Volume7 , Issue 2, PP 1-13, **December 2016. (Indexed by Google Scholar)**
  31. **Reddy Sreenivasulu & Ch.Srinivasa Rao** , published a paper titled “Effect of Drilling parameters on thrust force and torque during drilling of aluminium 6061 alloy - based on taguchi design of experiments” **Journal of Mechanical Engineering**, pp 41-48, **Vol. 46, No.1, December 2016,Transaction of the Mechanical Engineering Division, The Institution of Engineers, Bangladesh.**
  32. **Reddy Sreenivasulu** published a paper titled, Design and Fabrication Issues in MEMS, **AKGEC International Journal of Engineering and Technology** (ISSN: 0975-9514) Vol.8, No2, pp, **Jan-June 2017. (Indexed by Google Scholar)**
  33. **Reddy Sreenivasulu** published a paper titled “ optimum combination of process parameters to optimize surface roughness and chip thickness during end milling of aluminium 6351-T6 alloy using taguchi grey relational analysis” **Independent Journal of Management & Production** (ISSN: 2236-269X) Volume 8, No2, **April-June 2017**, pp 287-298, DOI: 10.14807/ijmp.v8i1.325. **(Indexed by Google Scholar) (WoS)**
  34. B.Bhargavi and **Reddy Sreenivasulu** published a paper entitled, Influence of ZnO and SiC Micro Fillers on Mechanical Properties of E-Glass/Polyester Composites, **International Journal of Engineering Science and Computing**, **Volume 7, Issue No.7, pp 14036-14040, July 2017. (Indexed by Google Scholar)**

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36. **Reddy Sreenivasulu** published a paper titled, Influence of Zinc Oxide and Silicon Carbide Micro fillers on Impact Strength and Hardness in E-Glass/Polyester Composites: Fabrication and Testing, **AKGEC International Journal of Technology**, Volume 9, No. 1, pp 19-25, Jan-June 2018. (Indexed by Google Scholar).
37. **Reddy Sreenivasulu**, Shaik Hidayath Hussain, Raga Veera Vineeth, Raavi Rama Krishna, Vijay Dasari and Pappala Suresh published a paper titled, Taguchi Based Experimental Studies on Surface Roughness and Burr Formation during End Milling of Inconel 718, **AKGEC International Journal of Technology**, Volume 9, No. 1, pp 65-71, Jan-June 2018. (Indexed by Google Scholar)
38. **Reddy Sreenivasulu** & Ch.Srinivasa Rao published a paper titled, Modelling, Simulation and Experimental validation of Burr size in Drilling of Aluminium 6061 alloy, **Procedia Manufacturing (Elsevier)**, Volume 20, 2018, Pages 458-463. (SCOPUS)
39. **Reddy Sreenivasulu** & Ch.Srinivasa Rao published a paper titled, Optimization of machining parameters during drilling by Taguchi based design of experiments and validation by neural network, **Brazilian Journal of Operations & Production Management**, Volume 15, No.2, pp 294-301, June 2018. (Indexed by Google Scholar) (ESCI) (Web of Science)
40. **Reddy Sreenivasulu** & Ch.Srinivasa Rao published a paper titled "Investigations of influence of drill geometry and thrust force during drilling of Aluminium 2014 alloy on burr formation through design of experiments and neural network, **Technological Engineering, (De Gruyter) Volume XV, Number 1, 2018**
41. Reddy Sreenivasulu, K. Kamal Charan, R. Ramanjaneyulu, L. Murali Krishna, L. Sai Krishna, L. Jagadeesh published a paper titled "Parametric Design and Analysis of Four Wheeled Car Bumper using CATIA & Ansys" in **International Journal of Recent Engineering Research and Development (IJRERD)**, Volume 04, Issue 03, PP. 64-68, March 2019.
42. R.Venkata Neeraj Kumar and **R.Sreenivasulu** published a paper entitled "Inverse kinematics (IK) solution of a Robotic Manipulator using PYTHON" in **Journal of Mechatronics and Robotics**, 2019, Volume 3, pp 542-551, DOI: 10.3844/jmrsp.2019.542.551.
43. **Reddy Sreenivasulu** & Ch.Srinivasa Rao published a paper titled" Review on investigations carried out on burr formation in drilling during 1975 to 2020, to a journal of **Technological Engineering, (De Gruyter) Volume XVI, Number 1, PP 43-57, 2019**. DOI: 10.1515/teen-2019-0007
44. Reddy Sreenivasulu & Ch.Srinivasa Rao and K.Ravindra published a paper titled "Grey based Taguchi approach integrated with Entropy Measurement for optimization of Surface Roughness and Delamination Damage factor during End Milling of GFRP Composites" to a **International journal of Modern Manufacturing Technologies (IJMMT)**, ISSN: 2067-3604, Volume XI, Issue 2, pp 133-141, 2019. (SCOPUS)
45. **Reddy Sreenivasulu** & Ch.Srinivasa Rao published a paper titled "Applicability of Industrial Internet of Things in Lean Manufacturing: A Brief Study" in **AKGEC Journal Technology**, Volume 10, Issue 2, PP 22-26, 2019.

46. **Reddy Sreenivasulu**, Ch.Srinivasa Rao and K.Ravindra published a paper titled, “Effect of thrust and torque exerted during drilling to optimize exit burr height and thickness by choosing variable drill bit geometry-a simplified theoretical model approach”, in **International Journal of Data and Network sciences**, Volume 4, pp 43-56, **2020**. **(SCOPUS)**
47. **Reddy Sreenivasulu** & Ch.Srinivasa Rao published a paper titled” Optimization of machining parameters during end milling of super alloys using Grey based taguchi method coupled with entropy measurement technique”, in **Journal of Mechanical and Energy Engineering (JMEE)**, Volume 4 (44), No.1, pp 47-56, March 2020. DOI: 10.30464/jmee.2020.4.1.47 (Indexed by Google Scholar)
48. **Reddy Sreenivasulu** and N. Yaswanth Krishna etal published a paper titled, Modeling and Analysis of Helical Springs of Different Cross Sections using CATIA-V5R19 and ANSYS 16.0, **AKGEC International Journal of Technology**, Volume 11, No. 2, pp 41-50, July-Dec 2020. (Indexed by Google Scholar)
49. **Reddy Sreenivasulu** & Ch.Srinivasa Rao published a paper titled “Optimum combination of machining parameters during drilling of aluminium 7075 alloys using Grey based Taguchi approach” in **Journal of Mechanical and Energy Engineering (JMEE)**, Vol. 4(44), No. 3, September 2020, pp. 227-238. DOI: 10.30464/jmee.2020.4.3.227 (Indexed by Google Scholar)

#### Published Books/ Book Chapters in Referred Publishers: **01**

1. Reddy Sreenivasulu & Ch.Srinivasa Rao, published a **BOOK CHAPTER** titled “Some investigations on drilling of Aluminium alloys from FEA - based simulation using Deform-3D” published by **SPRINGER NATURE** SINGAPUR with book title “**Advances in simulation, product design and development**”, Chapter -1, pp 3-15, January 2020 under book series **Lecture Notes on Multidisciplinary Industrial Engineering** ISSN: 2522-5022,. Print ISBN: 978-981-329-486-8, Electronic ISBN: 978-981-329-487-5.

#### Achievements / Awards:

- Staff Co-Ordinator for Student initiated **Robotics Club**
- Students under my guidance acheieved first place for model PHOTOTRON in IIT Gauwahati , **2018**
- Students under my guidance acheieved Second place for model mobile controlled robot in NIT Warangal, **2018**
- Students under my guidance participated 4 Robot events (light follower, line follower, tug of bots, robo soccer) in IIT Jodhpur, during 21st -25th, Feb, **2019**.

#### Professional Membership:

1. IAENG ----- 126037
2. IACSIT ----- 80349696
3. SCIEI ----- 20200720002
4. HKSME ----- M20200623001

### Interested Areas for Research:

|                          |  |
|--------------------------|--|
| Design of Mechanisms     | Kinematic design of Robotic Manipulators |
| Design of Experiments    | Machining of Composites and Alloys       |
| Design of Farm Machinery | Modelling of Machining Systems           |

### Personal Details:

|                 |                            |
|-----------------|----------------------------|
| Father's name   | : Late Sri R.Chinnaiah     |
| Date of Birth   | : 20-06-1971               |
| Marital Status  | : Married                  |
| Languages Known | : English, Telugu, & Hindi |
| Nationality     | : Indian                   |

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

Date : 02.02.2021  
Place : Guntur

**(Dr. Reddy Sreenivasulu)**