

# CURRICULUM VITAE

## Dr M V N SRUJAN MANOHAR

# S/o Mamidi Garika Rao, 12-17B, Visakha A Colony, 4<sup>th</sup> Lane,  
Srikakulam Mandal, Srikakulam, Andhra Pradesh – 532001.

**Date of Birth:** 17<sup>th</sup> February 1989

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## PROFILE

- Awarded PhD Degree in the field of Micro-Friction Stir Welding Technology on July 2022, from the Department of Mechanical Engineering, Pondicherry University, Puducherry.
- Qualified individual with Master of Technology in Advanced Manufacturing Systems from University College of Engineering, JNTU Kakinada.
- Possess good understanding in Materials Testing and Characterization Techniques.

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## EDUCATIONAL CREDENTIALS

- **Ph.D. (Mechanical Engineering) – Awarded – July 2022**  
Pondicherry Engineering College, Pondicherry University, Puducherry.  
**Thesis:** An Experimental Study of Welding Parameters Behaviour on Dissimilar Thin Gauge Sheets using Micro-friction Stir Welding.
- **M.Tech (Advanced Manufacturing Systems) – November 2012 (86.92%)**  
University College of Engineering, JNTU Kakinada, Andhra Pradesh.  
**Thesis:** Design and Analysis of Piston rod in a Pneumatic Shaping machine for Auto Indexing Gear cutting attachment.
- **B.E. (Mechanical Engineering) – April 2010 (69.12%)**  
SRKR Engineering College, Bhimavaram, Andhra University, Andhra Pradesh.  
**Thesis:** Modification of Cross Travel Shaft in Gas cutting machine under Continuous Casting Department.

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## EXPERIENCE DETAILS

- Worked as an **ASSISTANT PROFESSOR** (Mechanical Engineering) at Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam from 22<sup>nd</sup> Dec 2012 to 13<sup>th</sup> June 2017.

## AREAS OF INTEREST

### Teaching Interest

- **Theory Courses:** Industrial Metallurgy, Automation in Manufacturing, Industrial Robotics.
- **Laboratory Courses:** Engineering Workshop, Metallurgy Lab, Solid Works – IDEA Lab.

### Research Interest

- **Micro-Friction Stir Welding**
- **Friction Stir Additive Manufacturing**
- **Multi-Objective Optimization**

### Research Contributions

**Google Scholar:** <https://scholar.google.com/citations?user=t5DCCUAAAAJ&hl=en>  
**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=57211213190>

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## RESEARCH PUBLICATIONS

### Papers Published in Peer-Reviewed Journals

- M.V.N. Srujan Manohar and K. Mahadevan, “Multi-attribute Optimization of Weld Parameters for Micro-Friction Stir Welded Al601/SS304 Sheets Using TOPSIS Approach” **Periodica Polytechnica Mechanical Engineering**, **2022**, Volume 66, Issue 4, Pages 282-288 (**SCI and Scopus indexed**).
- M.V.N. Srujan Manohar and K. Mahadevan, “Mechanical Parameters Response on Micro-Friction Stir Welding of AA6061 and SS304 sheets” **Journal of Advanced Manufacturing Systems**, **2021**, Volume 20, Issue 3, Pages 495-511 (**SCI and Scopus indexed**).
- M.V.N. Srujan Manohar, Y S Rama Rao and Sreeram, “Optimization of Machining Parameters for AISI 316L and 317L Austenitic Stainless Steels using Eco-cut Wire-EDM Technique” **IJEAT**, **2019**, Volume 9, Issue 2, Pages 1950-1955 (**Scopus indexed**).
- M.V.N. Srujan Manohar, K. Mahadevan and Aravindan, “Performance of H13 and HCHCR Tool Materials on Friction Stir Welded 6070Aluminium Alloy Plates Subjected To Different Temper Conditions” **IJRTE**, **2019**, Volume 8 Issue 4, Pages 5261-5266 (**Scopus indexed**).
- M.V.N. Srujan Manohar, Y S Rama Rao and Sandilya, “Material Characterization on Dissimilar Weldments of AISI 316L/317L Austenitic Stainless Steels” **CSIR – Journal of Scientific and Industrial Research**, **2018**, Vol. 77, Issue 9, Pages 533-536 (**SCI and Scopus indexed**).

### **Papers Published in Conference Proceedings**

- Y Seetharama Rao, M.V.N. Srujan Manohar and S V V Siva Praveen, “CFD simulation of NACA airfoils at various angles of attack” **IOP conference series: Materials Science and Engineering, 2021**, Volume 1168, Part 1, Issue 012011, Pages 1-11 (**CPCI-Science WoS indexed**).
- M.V.N. Srujan Manohar and K. Mahadevan, “Multi-Response Optimization of Weld-process variables for Micro-Friction Stir Welding of Al6061(T6) and Cu101 sheets using TOPSIS method” **IOP conference series: Materials Science and Engineering, 2021**, Volume 1168, Part 1, Issue 012002, Pages 1-8 (**CPCI-Science WoS indexed**).
- M.V.N. Srujan Manohar and K. Mahadevan, “Prediction on Mechanical and Microstructural Behaviour of Friction Stir Welded Thin Gauge Aluminium-Copper Sheets” **Materials Today – Proceedings, 2021**, Volume 45, Part 2, Pages 700-707 (**Scopus indexed**).

### **Papers Presented in Conferences**

- M.V.N. Srujan Manohar and K. Mahadevan, “Effect of Weld-Pitch on Mechanical Responses during Micro-Friction Stir Welding of Aluminium alloy and Pure Copper Sheets” at **ICAMSER – 2021**, Chitkara University, Himachal Pradesh.
- M.V.N. Srujan Manohar and K. Mahadevan, “Influence of Weld Pitch Behaviour on Mechanical and Metrological Parameters for Micro-Friction Stir Welded Aluminium alloy and Stainless Steel sheets” at **ICRAME – 2020**, Andhra University College of Engineering (A), Visakhapatnam, Andhra Pradesh.
- M.V.N. Srujan Manohar, Aditya R and Jitendra, “Investigations of magnetic field arrangements on machining parameters in die sinking EDM for high speed steel using artificial neural networks” at **NCAMMS 2015**, QIS College of Engineering and Technology (Autonomous), Ongole, Andhra Pradesh.
- M.V.N. Srujan Manohar, Jitendra and Aditya R, “Investigations of machining parameters on surface roughness values for high strength low alloy steels in CNC machine using artificial neural networks” at **NCAMMS 2015**, QIS College of Engineering and Technology (Autonomous), Ongole, Andhra Pradesh.

### **WORKSHOPS & SEMINARS ATTENDED**

- Participated in a Two-Day National Seminar (under SERB – India) on “Advanced Joining Techniques of Dissimilar Materials for Engineering Applications”, ANITS College Visakhapatnam in January **2020**.
- Participated in a Five-Day International Workshop (under Newton Fund Programme and Higher Education Partnership – India) on “Advancements in Welding Technology”, NIT Trichy in June **2018**.
- Participated in a Five-Day Short Term Course (under TEQIP-II) on “Essential Techniques for Research Problems in Materials and Manufacturing”, NIT Warangal in April **2014**.

- Participated in a Five-Day Short Term Course (under TEQIP-II) on “Essential Techniques for Research Problems in Manufacturing and Measurements”, NIT Warangal in July **2013**.
  - Participated in the Faculty Enablement Program (under TEQIP-II) on “Introduction to Aircraft Industry and Systems”, Infosys Mysore in May **2013**.
  - Participated in the workshop (under TEQIP-II) on “Advanced Finite Element Applications in Design and Manufacturing Systems”, JNTU Kakinada in April **2012**.
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## **ACADEMIC PROJECTS UNDERTAKEN**

### **Post Graduate Thesis Guidance**

- Effect of Various Magnetic Fields on Performance Parameters in Die Sinking EDM of M4 Tool Steel.  
(Reddipalli Aditya, Regd. No: 1213D0411, 2015, GVPCOE (A) Visakhapatnam)
- Investigation on Machining Parameters on AISI 316L & 317L Stainless Steel using Wire EDM.  
(Chatti Sreeram, Regd. No: 14131D0402, 2016, GVPCOE (A) Visakhapatnam)

### **Under Graduate Thesis Guidance**

- Investigation of Wear Characterization on AISI 316L and 317L Austenitic Stainless Steel using Pin on Disc Wear Test Apparatus.  
(Regd. No: 12131A0393, 12131A0394, 13135A0316 – 2016, GVPCOE (A) Visakhapatnam)
- Design and Fabrication of Unmanned Aerial Vehicle.  
(Regd. No: 13131A0350, 13131A0351, 13131A0382 – 2017, GVPCOE (A) Visakhapatnam)
- Design and Fabrication of Hand Gesture Controlled Robotic Arm.  
(Regd. No: 13131A0374, 13131A0378, 13131A0363 – 2017, GVPCOE (A) Visakhapatnam)

### **Contributions to Department – GVPCOE (A) Visakhapatnam**

- Certificate of Merit was awarded for being one of the team member in Task based training TBT-2017 for completing all the assigned tasks which was conducted as a part of Teacher Training through e-Yantra Lab Setup Initiative (eLSI), IIT Bombay.
- Certificate of Appreciation was awarded as a Faculty Advisor for coordinating and guiding students during their participation in Hybrid Vehicle Challenge organized by Imperial Society of Innovative Engineers at RPM International Racing Circuit, Bhopal during 2015-2016.
- Worked as Course Coordinator for Outcome based Education by framing the syllabus structure as per their outcomes for Manufacturing related subjects and also participated in department level NBA related activities during 2015-2017.

- Visiting Faculty for teaching Manufacturing Operations and Size Reduction Techniques subject at Dr. Reddy's Laboratories under TISS evolution for regular employees during 2015-2017.
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## MEMBERSHIPS AWARDED

- Life Member - MRSI (LMB2440), Hyderabad Chapter
  - Life Member - ISAMPE (L-1626), Bangalore Chapter
  - Life Member - IAENG (129626), Hong Kong
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**Languages Known:** Telugu, English and Hindi.

**Hobbies:** Travelling and Swimming.

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## REFERENCES

1. **Dr. K. Mahadevan**, Professor, Mechanical Engineering, Puducherry Technological University, Puducherry – 605014  
Email ID: mahadevan@ptuniv.edu.in      Mobile: 9443042149
  2. **Dr. G. Chandrasekhar**, Professor, Chemical Engineering, Puducherry Technological University, Puducherry – 605014  
Email ID: chandrasekhar@ptuniv.edu.in      Mobile: 9698982254
  3. **Dr. Y. Seetharama Rao**, Professor, Mechanical Engineering, Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam – 530048  
Email ID: yseetharamarao24@gvpce.ac.in      Mobile: 9866070401
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## DECLARATION

I hereby inform that the information furnished above is true to the Best of my knowledge.

*M.V.N. Srujan Manohar*

**(M.V.N. SRUJAN MANOHAR)**