

CURRICULUM-VITAE

G. MEHERSHILPA

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OBJECTIVE

To secure a challenging position in an esteemed organization that fosters professional development and enables me to utilize my skills and knowledge to contribute to its growth.

EDUCATION

- Pursuing PhD in Osmania University from Aug 2018.
- M.Tech – Robotics Engineering from SRM University, Chennai by May 2012.
- B.E – Mechanical from Chaitanya Bharathi Institute of Technology in 2009.

TEACHING EXPERIENCE

08/2018 – Present Assistant Professor (C)

Mechanical Engineering Department

JNTUH University College of Engineering Sultanpur.

- Worked as Assistant Professor in Sreyas Institute of Engineering & technology from 10th October 2014 to 30/03/2017.
- Worked as Assistant Professor in Siddhartha college of engineering & Technology from 1st july 2013 to 8th October 2014.
- Worked as Assistant Professor in Nalla Malla Reddy Engineering College from 15th June 2012 to 20th May 2013.

CERTIFICATIONS

Successfully completed the certification course on **MATLAB & Simulink** from **E&ICT Academy, IIT Kanpur**, a joint initiative of MeitY and IIT Kanpur, issued on 11-09-2025. Certificate authorized by Prof. B. V. Phani, Chief Investigator of E&ICT Academy, IIT Kanpur.

TECHNICAL SKILLS

Familiar with: ANSYS, SolidWorks, MATLAB and ADAMS

PUBLICATIONS

- Authored the textbook "**Robotics**," published by **Jayalakshmi Publications**, with Prof. M. Mahalingam, Dr. S. Kaliappan, and Dr. Ram Subbiab with ISBN 978-93-91987-83-1.
- G. Mehershilpa, K. Muralidharan; S. Kaliappan et al., "Mechanically constrained single-loop 6-bar chain from double 6R chain", AIP conference Proceedings Volume 2747, Issue-1, 12th May 2023.
- G. Mehershilpa, D. Prasad, C. Sai Kiran et al., "EDM machining of Ti6Al4V alloy using colloidal biosilica", Materials Today: Proceedings, (Elsevier) ISSN: 2214-7853
- **G. Mehershilpa**, " Design and Analysis for Mobile Robot", International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-07, Issue-02, MAY 2021 (Journal)
- **G. Mehershilpa** "Review of Designing a Mobile Robotic Model by Using More Number of DOFS to Enhance the Robotic Motion" paper is selected by International Journal of Engineering Research and Applications and published in July 2020. (ISSN: 2248-9622, Vol. 10, Issue 7, (Series-VI) July 2020, pp. 48-58)(Journal)
- **G. Mehershilpa**, Stalin John, "Simulation, Design and Fabrication of Cartesian Parallel Manipulator", paper is selected by "International Journal of Engineering Sciences Research- IJESR" and published in June Issue. (Volume 03, Issue 01 Page No. 676-682) (Journal).

CONFERENCES

- G. Mehershilpa, K. Muralidharan; S. Kaliappan et al., "Mechanically constrained single-loop 6-bar chain from double 6R chain", International Conference on Materials Engineering and Manufacturing Systems 2022 (ICMEMS2022)
- Won **THIRD** prize in third annual National level Technical paper meet, VIDYA-03 organized in Vidya Jyoti Institute of Technology, Hyderabad Carbon Nanotechnology based Modern Flywheel Systems

PATENT(S)

Mobile robot vehicle with center of gravity chassis # 202241012028 A by G Mehershilpa, Dr. Muniyandy Elangovan, (Professor, Department of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai – 600 062)

Prof. Akshay Anjekar, Dr. Bhargav Prajwal Pathri, Mr. G.Venkat Ramana Mr. Alok Sharma
Mr. Dilip Kumar Bagal and Dr. Boda Surya Venkata Ramarao.

TRAINING AND CERTIFICATIONS

NPTEL courses

- 12-week cum FDP certified course on “**Advanced Robotics**” from Jan-April 2025 by NPTEL-AICET.
- 4-week cum FDP certified course on “**Manufacturing Automation**” from Jan-Feb 2023 by IIT-Kanpur secured top 5% marks.
- 8-week cum FDP certified course on **Welding Application Technology** from Aug-Oct 2021 by NPTEL-AICET.
- 8-week cum FDP certified course on “**Wheeled Mobile Robot**” from Jan-Mar 2021 by IIT- Madras
- 4-week cum FDP certified course on “**Machining Science**” from Jan-Feb 2021 by IIT-Kanpur
- 8-week cum FDP certified course on **Modelling and simulation of Dynamic systems** from Jan-Mar 2019 by NPTEL-AICET.

Workshops Attended

- Successfully participated & completed One-Week Workshop on "**Recent Advances in Design, Manufacturing & Testing of Composites**" organized by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology (A) in collaboration with Advanced Systems Laboratory (ASL), DRDO, and Indian Society for Advancement of Materials and Process Engineering (ISAMPE), Hyderabad Chapter held from 06/01/2025 to 11/01/2025.
- One Week International Short Term Training Program (Online) titled “**Recent Advancements in Fuel Cell and Hydrogen Storage**”, organized and delivered by Department of Mechanical Engineering, School of Engineering, Anurag University, India in Collaboration with Centre for New Energy Transition Research, Federation University Australia during 09 - 13 October, 2023
- AICTE Sponsored one week online Short-Term Training Program (STTP - Phase-III) on “**Innovations and Challenges in Industry 4.0 Automation and Smart Manufacturing**”,

organized by Department of Mechanical Engineering, Kallam Haranadhareddy Institute Of Technology, Guntur, Andhra Pradesh from 26th July 2021 to 31st July 2021.

- One week workshop on **Advances In Manufacturing Processes** From 13th July 2020 to 17th July 2020, Organized by the Department of Mechanical Engineering, Bharat Institute of Engineering and Technology, Hyderabad.
- AICTE Sponsored One Week Short Term Training Program on **Non-Traditional Algorithm: Efficacious for Multi Objective Optimization** organized by Department of Mechanical Engineering from 27 July to 01 August 2020.
- Attended a Short term Course on **Engineering Research Methodology** held during 9th-13th December 2019 in the Department of Mechanical Engineering, University College of Engineering O.U
- Three day nation level workshop on **Teaching, Learning and Evaluation Online with Moodle MOOC Platform & Open Education Resources** held during 26th to 28th February 2019 in JNTUHUCES organized by JNTUH University College of Engineering Sultanpur.
- Attended One-week APSCH- JNTUH sponsored Workshop on **Engineering Drawing** from 16th to 21st July, 2012 at Anurag Group of Institutions, Ghatkesar, R.R.Dist, AP.

Webinars

- Webinar on held on 20th June,2020 conducted by Future Trends in Wheeled Mobile Robots Dr. SANTHAKUMAR MOHAN, Associate Professor, Department of Mechanical Engineering, IIT (Indian Institute of Technology), Palakkad, Kerala, India.
- One Day webinar on “Metal Additive Manufacturing” conducted by Department of Mechanical Engineering on 13-6-2020 organised by VIVEKANANDA INSTITUTE OF TECHNOLOGY AND SCIENCE
- A 2 Hour Training Webinar- The Complete Guide On Review Paper Publication for PhD Scholars on 20th June 2021.

FDPs Attended

- One Week Faculty Development Programme on “ **Engineering Drawing through AUTOCAD**” in online mode organised by Department of Mechanical Engineering of CVR College of Engineering Hyderabad from 10th to 15th November 2023.

- One Week Faculty Development Programme on “ **Machine Learning Applications for Mechanical Engineers**” in online mode organised by Department of Mechanical Engineering of CVR College of Engineering Hyderabad from 18th to 23rd December 2023.
- One-week FDP on “**Recent Developments in Manufacturing Technology**” organized by Department of Mechanical Engineering of Sreyas Institute of Engineering and Technology held during 21- 26 June 2021.
- International level Five-Day virtual FDP on **Thin-Films in Manufacturing** (TFM-2021) from 4th October to 8th October 2021 organized by Department of Mechanical Engineering & Industry-Institute Interaction Cell, Madanapalle Institute of Technology & Science, Madanapalle.
- One Week Faculty Development Programme on “Recent Developments in Manufacturing Technology” organized by Department of Mechanical Engineering of SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY held during 21-06-2021 to 26-06-2021.
- One Week online FDP on “**Applications of Finite Element Analysis (FEA) and Computational Dynamics (CFD) using ANSYS** held from June 13-17, 2020 is sponsored by TEQIP-III and jointly organized by Government Engineering College-KARAD Maharashtra and Rajikiya Engineering College Azamgarh.
- One-week National Level FDP and Online Training on “**SCILAB-An Open-Source Substitute for MATLAB**” jointly organized by JNTUHCES and Spoken Tutorial Project IIT Bombay from 25th May 2020 to 30th May 2020.
- One Week FDP on **Materials: Recent Trends and Engineering Applications** during 02-07 June 2020 organized by GRIET.
- A 3-Day FDP on “**Industrial Artificial Intelligence**” during 15-17th June 2020 organized by Department of CSE, EEE & MECH Association with Training & Placement Cell and EDWISELY.
- One-week online Faculty Development program on “**Emerging Research Areas In Mechanical Engineering**” organized by the department of Mechanical Engineering, CMR Technical Campus, Hyderabad scheduled from 29/06/2020 to 03/07/2020
- One-week National Level FDP and Online Training on “**Moodle Learning Management System**” jointly organized by JNTUHCES in association with Spoken Tutorial Project IIT Bombay from 10th June to 15th June 2020.

- One Week Faculty Development Programme on “ Advance Research Traits in Materials & Design of Mechanical Systems” in online mode organised by Department of Mechanical Engineering of Vigna University from 22 to 27 July November 2020.

SUBJECTS TAUGHT and LABS HANDLED

Engineering Drawing, Metallurgy & material Science, Instrumentation & Control Systems, Mechanics of solids, Industrial Robotics and Design of Machine Elements/Members.

Instrumentation lab, CAD-CAM lab, Hydraulics & fluid Machines lab, Metallurgy lab & Engineering workshop, Robotics Simulation Lab

PROJECT(S) GUIDANCE

1. Design and Fabrication of Stair case climbing trolley.
2. Design & Fabrication of pneumatic can crusher.
3. Design and analysis of insulated piston for CI.
4. Impact of nano particles on performance of solar panels.
5. Design and Fabrication of Rocker Bogie Mechanism.
6. Ductile tearing energy of Aluminum rods

Place: Hyderabad

Date:

(G Mehersilpa)