



# Raviteja Tirumalapudi

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## Career Objective

Engaging Engineering Teacher adept at instructing students on the intricacies of mechanical engineering in a structured classroom setting. Especially skilled at clearly explaining fundamental concepts through relevant examples and sound knowledge of classroom materials. Committed to remaining current in the field of engineering.

## Education

- 2019– till now **Doctor of Philosophy**, *Robotics*, Vellore Institute of Technology, Vellore, Vellore.  
*Not yet awarded*
- 2010–2012 **Master of Technology**, *Robotics*, SRM Institute of Science and Technology, Chennai.  
*Grade : First Class*
- 2006–2010 **Bachelor of Technology**, *Mechanical Engineering*, Narasaraopeta Engineering College, Narasaraopeta.  
*Grade : First Class*

## Doctor of Philosophy thesis

- title *Motion Obstacle avoidance and Path Planning for Autonomous Vehicles Using Optimization Hierarchy System*
- supervisors Prof. Dr.I.S. Rajay Vedaraj

## Experience

### Teaching

- 2019–Till Now **Teaching cum Research Assistant**, *Vellore Institute of Technology*, Vellore.
- Work Description:
- Supported weekly lab sessions, contributing to student engagement, comprehension and learning objectives.
  - Took attendance, graded assignments and maintained student records to assist teachers with administrative tasks and maintain smooth daily operations.
  - Handled classroom administration for professors, including taking attendance and recording student progress.
  - Performed research into study topics to increase knowledge and ability to provide valuable contributions.
  - Write research papers, reports, reviews and summaries regarding Robotics, Data Science and self-driving cars.

2016–2019 **Associate Professor**, *Sai tirumala NVR engineering college*, Narasaraopet.

Work Description:

- Assisted professors and college administrators with continuous development, review, planning and outcomes evaluation to measure Mechanical Engineering program performance.
- Applied innovative teaching methods to encourage student learning objectives.
- Proctored exams and provided remediation for learning improvement goals.
- Evaluated student progress through analysis of test scores and homework completion.

2013–2016 **Incharge Head of the Department**, *St.Marys's group of institutions, Guntur*, Guntur.

Work Description:

- Established research agenda in Mechanical Engineering field to publish in peer-reviewed journals.
- Built strong rapport with students through class discussions and academic advisement.

2012 **Assistant Professor**, *Narasaraopeta Engineering College*, Narasaraopeta.

Work Description:

- Evaluated student progress through analysis of test scores and homework completion..
- Assisted professors and college administrators with continuous development, review, planning and outcomes evaluation to measure Mechanical Engineering program performance.

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## Publications

- Raviteja Tirumalapudi, I S Rajay Vedaraj, " An Introduction Of Autonomous Vehicles And A Brief Survey", Journal of Critical Reviews, vol. 7, no. 13, pp. 196-202, Jun. 2020.(scopus)
- Raviteja Tirumalapudi, I S Rajay Vedaraj, " A New RT Shortest Path Planning Algorithm For Mobile Robot Navigation In Known Terrain", International Journal Of Scientific &. Technology Research, vol. 9, no. 03, pp. 1044-1047, Mar. 2020.(scopus)
- Raviteja Tirumalapudi, I S Rajay Vedaraj, " Mobile Robots Obstacle Avoidance and Shortest Path Planning Using Algorithms – A Review ", Test Engineering &. Management, vol. 83, no. 03, pp. 22434-22443, Jun. 2020.(scopus)
- Rajay Vedaraj I.S, Jino.S.Ganesh, Niranjen swarup, Madhan Kumar, Raviteja Tirumalapudi, "ARTIFICIAL INTELLIGENCE USING IN VISUAL SLAM METHODS – A REVIEW", IJAST, vol. 29, no. 4s, pp. 3158-3167, Jun. 2020.(scopus)
- T. Ravi teja and S. Krishna chaitanya, "Autonomous robot motion path planning using shortest path planning algorithms" "International organization of Scientific Research Journal of Engineering (IOSRJEN)", vol.3 Issue 1, Jan-2013, e-2250-3021 ||V1||pp 65-69.
- T. Ravi teja and S. Krishna chaitanya, "Optimize The Heuristic Line Balancing Using Neural network Technique" "International Journal of Engineering Research and Technology(IJERT)", vol.2 Issue 3, Mar-2013, e-2278-0181.
- T. Ravi teja and S. Krishna chaitanya, "Design and Development of Vehicle Accident Detection System Using MEMS Technology" ,"International Journal of Engineering Research and Technology (IJERT)", vol.2 Issue 8, August -2013, e-2278-0181.
- T. Ravi teja and S. Krishna chaitanya, "Case study on Turbine Blade Internal Cooling", "International Journal of Engineering Research and Technology (IJERT)", vol.2 Issue 3, March -2013, ISSN: 2278-0181
- T. Ravi teja and S. Krishna chaitanya, "Computation of Natural Frequencies of Multi Degree Of Freedom System" ,"International Journal of Engineering Research and Technology(IJERT)", vol.1 Issue 10, Dec-2012, e-2278-0181.

## Conferences

- Tirumalapudi Raviteja, Rajay Vedaraj .I.S, R. Siva Krishnam Raju, M. Yugandhar, "Heuristic Algorithm for Cooperative Motion Planning &. Controlling of Unmanned Surface Vehicles", "International Conference on Robotics, Intelligent Automation and Control Technologies (RIACT 2020)", Vellore Institute of Technology-Chennai.

## Workshops &. Faculty Development Programs

- "Swarm Intelligence in Engineering Applications" Dr.Suresh Chandra Satapathy, Professor &. Dean Research, School of Computer Engineering, IIT Hyderabad,(12/2019) in VIT,Vellore.
- "AI and Cognitive Services" Ms. Alagunila Meganathan, Founder &. CTO , Namakkal, Namakkal,(12/2019) in VIT,Vellore.
- "Artificial Intelligence and Computer Vision using Python based Machine Learning" Mr. Jai Ganesh Suresh, Lead Engineer, HCL Technologies, Chennai ,(12/2019) in VIT,Vellore.
- "Reinforcement Learning (Introduction, Q-Learning, and SARSA algorithm) and hands on session" Dr. Akshay Deepak, Faculty, NIT, Bihar, Senior Professor ,(12/2019) in VIT,Vellore.
- "Sentiment Analysis using KNIME: A Machine learning Approach" Prof.S. Chandrasekhar,PhD. (University of Georgia), Senior Professor &. Director, IFIM, Bengaluru (11/2019) in VIT,Vellore.
- "Effectiveness of 5S thinking and its implementation on productivity of Engineering Industry" Mr. R. Shravan Kumar, Assistant Manager, BMW, Chennai (11/2019) in VIT,Vellore.
- "Implementation Practices on Artificial Neural Networks – Hands on with Python" Mr. Mithun DJ , Assistant Manager, Indictis Private Ltd, Bengaluru (11/2019) in VIT,Vellore.
- "IOT in CYBERSECURITY" PRASHANTH AC And Priya C Shekar, Technical Experts Cyber Security , SCHNEIDER ELECTRIC , Bangalore (10/2019) in VIT,Vellore.
- "IOT in Industrial Automation" Ajith Chathanath, Product Owner &. Senior Principal, SCHNEIDER ELECTRIC, Bangalore (10/2019) in VIT,Vellore.
- "Artificial intelligence Vs Human intelligence: Nurturing Critical Thinking Skills" by Dr. K. Balaji Reddy, Director, Training &. Development , Swarnandhra college of Engineering &. Technology, Narsapuram (10/2019) in VIT,Vellore.
- "Deep Learning Concepts with Convolutional Neural Network" by Mr. Mithun, Assistant Manager , Indictis Pvt Ltd, Bengaluru (10/2019) in VIT, Vellore.
- "Deep drive into Machine Learning Algorithms for Natural Language Processing" by Mr. Marakkannu M, Senior Director – Engineering, Kore.ai , Hyderabad (09/2019) in VIT, Vellore.
- "Autonomous Vehicle Technology" by Mr.Sankar TML, Divisional Manager- R &. D division, Ashok Leyland Limited, Chennai (08/2019) in VIT, Vellore.
- Participated in a one day national level conference Transformation of Engineering Education over Decades- Its Future in Sai tirumala NVR engineering college, NRT.
- Participated in a two day national level workshop on "FINITE ELEMENT ANALYSIS" in NARASARAOPETA ENGINEERING COLLEGE, NRT.
- Participated in a two day national level workshop on "RECENT ADVANCES IN MECHANICAL ENGINEERING" in TIRUMALA ENGINEERING COLLEGE, NRT.
- Participated in poster presentation on Artificial intelligence and Robotics in SRM UNIVERSITY, Chennai.

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## Computer skills

Programming Languages Python, Matlab.

OS Windows, Linux.

Design packages AutoCAD, ABB robot studio, Ansys Car Sim, Carla.

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## Interests

- o Travelling, Reading fiction novels, fish hunting, Cooking.

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## Languages

English Expert

Telugu Expert

Hindi and Tamil intermediate

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## Personal Details

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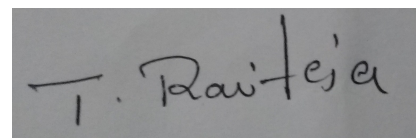
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## Declaration

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief and I undertake to inform of changed therein, immediately.



Raviteja Tirumalapudi