




## FACULTY PROFILE ON WEBSITE

<b>Faculty Name</b>	<b>Mr T Vignesh</b>	
<b>Academic Designation</b>	<b>ASSISTANT PROFESSOR</b>	
<b>Educational Qualification</b>	<b>B.E. M.E, (PhD)</b>	
<b>Experience in Teaching &amp; Industry</b>	<b>8 &amp; 2</b>	
<b>Date of Joining</b>	<b>02/05/2025</b>	
<b>Employee ID</b>	<b>180849</b>	

### **Educational Details**

M.E, Anna University, Madaras institute of Technology, Chennai, Stream – Mechatronics Engineering  
B.E. , Anna University, Jeppiaar Engineering College, Chennai, Stream – Mechanical Engineering

### **Professional Experience**

Academic – 8 Years  
Industry – 2 years

### **Publications**

- ❖ **T Vignesh**, D Selvakumar, R Jayavel, Multi-Spectral techniques for detecting adulterants in turmeric powder, Microchemical Journal, 112830
- ❖ **T Vignesh**, D Selvakumar, R Jayavel, Detecting ferric oxide adulteration in chilli Powder: A Multimodal analytical approach for enhanced food safety, Microchemical Journal, 2025, 208, 112332, IF 4.6

- ❖ **T Vignesh**, D Selvakumar, S Madhankumar, Drying kinetics, energy, colour and FTIR spectroscopy analysis on indirect solar dryer with paraffin wax and glass pieces as thermal storage material, *Solar Energy* 282, 112925, 2024, IF 6.
- ❖ **Vignesh, T**, Manikandan, N, Barath, B, Bharath, K.A, Bhrugunandana, K. Braille Board Actuates Text into Braille code using Solenoid Actuator, *AIP Conference Proceedings* This link is disabled., 2023.
- ❖ **Vignesh, T**, Gowrishankar, S, Jishnu, M, Leander Joseph, P, Influence of telepresence robot using arduino UNO R3 based 20A robot control board, *AIP Conference Proceedings* 2023.
- ❖ Arvind, M, Keshav, B, Kishore, P, Dheeraj, A, **Vignesh T**, Design and Fabrication of Automatic Spiral Binding and Punching Machine, *Proceedings - 3rd International Conference on Smart Technologies, Communication and Robotics 2023, STCR 2023*, 2023
- ❖ **Vignesh, T**, Velusamy, K, Arul Murugan, S, Dheeraj, A, Selvan, T, Detection of Adulteration in Spices, Milk, Fruits, 2023 14th International Conference on Computing Communication and Networking Technologies, *ICCCNT 2023*, 2023
- ❖ **Vignesh, T.**, Shibin Thomas, S., Vibunesh., Technology in Design Aspect of BIN Bot Robot', *Proceedings - 1st International Conference on Smart Technologies Communication and Robotics, STCR 2021*
- ❖ **Vignesh, T.**, Arul Praveen, T., ' Pipeline for Development of 3 Dimensional motion animation using the 2 Dimensional video', 2021 7th International Conference on Advanced Computing and Communication Systems, *ICACCS 2021*, 2021, pp. 991–995, 9442059
- ❖ Pooranam, N., **Vignesh, T.**, ' A Swarm Robot for Harvesting a Paddy Field', *Nature-Inspired Algorithms Applications*, 2021, pp. 137–
- ❖ Kumar, R.L., Pooranam, N., **Vignesh, T.**, ' Smart equipment to protect patients and people from COVID disease', *Biomedical Engineering Tools for Management for Patients with COVID-19*, 2021, pp. 121–133
- ❖ **Vignesh, T.**, Bhuvanewari, M., Mohamed Ismail, A., ...Ashwin Raaj, R., Beni Rijo Singh, J, ' Development of Low Cost Pellet Loading and Unloading AGV', *IOP Conference Series: Materials Science and Engineering*, 2020, 995(1), 012009
- ❖ **Vignesh, T.**, Bhuvanewari, M., Manojkumar, S., Kishore, S., Bommuraj, N, 'Development of Automatic Tube Oil Skimmer', *IOP Conference Series: Materials Science and Engineering*, 2020, 906(1), 12028
- ❖ Manikandan, N., **Vignesh, T.**, Prasath, C., Ismail, M.,' Thermo-Mechanical analysis of fused filament fabrication process', 2020, *IOP Conference Series: Materials Science and Engineering*, Vol 764, Sep 2020
- ❖ Madhankumar, S., **Vignesh, T.**, Anand Raj, P., Praveen, T, 'Design and Modelling of L-type Bidirectional Roller Conveyers for Glass Hauling', 2020 *Lecture Notes in Electrical Engineering*, Mar 2020,
- ❖ **Vignesh, T.**, Madhankumar, S., Anand Raj, P., Varadarajan, A., Arul Praveen, T.,' Gyro-stabilized Platform in Ambulance', *Lecture Notes in Electrical Engineering*, p 626, Mar 2020
- ❖ **Vignesh, T.**, Selvakumar, D., Prasath, C., Manikandan, N., Sri Viswanath, R., 'Design and fabrication of home automation', 2019 *IOP Conference Series: Materials Science and Engineering*, V0623, June 2019.

- ❖ **T. Vignesh**, R. Nivetha, and D. Selvakumar, "Design and Fabrication of 6-axis Gesture Controlled Robot," 2019 5th International Conference on Advanced Computing & Communication Systems (ICACCS).
- ❖ **T. Vignesh**, Manikandan N, Kannaki. S, Prasath C, Bhuvaneshwari M, Vignesh S, 'Development of LowCost Robotic Arm for Welding', International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-8 and Issue-8, June, 2019, ISSN: 2278-3075.
- ❖ Bhuvaneshwari, M., Emmanuel Gospel Raj, R., **Vignesh, T.**, ' Automatic fish cutting and cleaning machine using digital image processing', International Journal of Recent Technology and Engineering, July 2019
- ❖ S. Kannaki, S. Jaganathan , S.Panneerselvam, C.Prasath, L.Feroz Ali, **T.Vignesh**, 'Design and Modeling of Automatic Packing System for Atta Kneader', International Journal of Innovative Technology and Exploring Engineering, Vol 8 and Issue 7 , May 2019, ISSN: 2278-3075
- ❖ R. Vishnu Vardhan, N. Pooranam, S. Sivakumar, **T. Vignesh**, 'Producing Electrical Energy from Light Intensity and Design Tracking System By Dual Axis Method', International Journal of Mechanical and Production Engineering Research and Development, Vol 9, Jan 2019.
- ❖ Madhankumar S, Rajesh S, Balalmurugan R, **Vignesh T**, 'Optimization of Process Parameters on Surface Roughness for Micro Electrochemical Machining of Aluminium Matrix Composite' Internaltional Journal of Scientific Research Engineering and Technology, Vol 7, Feb 2018
- ❖ Rajesh S, Madhankumar S, Harikrishnan M, **Vignesh T**, ' Effect of Processing Parameters on Metal Matrix Composites in Stir Casting Process Using Taguchi Technique' International Journal for Research in Applied Science & Engineering Technology, Vol 6, Jan 2018.
- ❖ Madhankumar S, Rajesh S, **Vignesh T**, Harikrishnan M, ' Fabrication of Al 6082, SiC and Boron Glass Powder Composites and Evaluation of Mechanical Properties' International Journal of Innovative Research in Science Engineering and Technology, Vol 7, jan 2018.
- ❖ **T.Vignesh**, P.Karthikeyan, S.Sridevi, 'Modeling and Trajectory Generation of Bionic Hand for Dexterous Task', IEEE Xplore, Mar 2018
- ❖ Athira Soman, R. Kathiravan, **T. Vignesh**, Deepak Raj, 'Stress Analysis on Sae Supara Car Using FEA, Journal of Basic and Applied Engineering Research, Vol 1, oct 2014

#### International Conferences:

- Attended an International Conference On Innovations In Robotics, Intelligent Automation And Control (Iciriac2024), Tittle , "Design and fabrication of library management bot", 2024

- Attended an International Conference On Innovations In Robotics, Intelligent Automation And Control, Tittle," Braille board actuates text into braille code using solenoid actuator, AIP Conference Proceedings, 2024
- Attended an 4th International Conference on Computing Communication and Networking Technologies (ICCCNT), Tittle "Detection of Adulteration in Spices, Milk, Fruits", Delhi, India, 2024
- Attended an International Conference on Advanced Material and technologies for industry 4.0 (ICAMT4.0) Tittle "Autonomous Mobile Robot for Library Management" at Bannari Amman Institute of Technology on 23.03.2023-24.03.2023
- Attended an International Conference on Advanced Material and technologies for industry 4.0 (ICAMT4.0) Tittle "Design and Fabrication of Automatic Spiral Binding and Punching Machine - KAKS" at Bannari Amman Institute of Technology on 23.03.2023-24.03.2023
- Attended the international conference on Braille Board Actuates text into braille code using solenoid Actuator – International conference on Innovations in Robotics, Intelligent Automation and Control (ICIRIAC 2022) at 14.10.2022 in SKCET
- Attended Virtual conference on Technology aspect in BIN BOT - First international conference on smart technologies, communication and robotics, Bannari Amman Institute of Technology
- Attended Virtual conference on INFLUENCE OF TELEPRESENCE ROBOT USING ARDUINO UNO R3 BASED 20A ROBOT CONTROL BOARD , MLR Institute of Technology, Hyderabad.
- Attended Virtual conference on Advances in electrical drives and process control and automation - 9.06.20, VIT Vellore.
- Published a paper Design and Fabrication of L-type Bi directional Roller Conveyors for Glass Hauling in International Conference ICIEEE - 2019 in Guru Nanak Institute of Technology, Nagpur
- Published a paper Design and Fabrication of Six axis gesture-controlled robot in international conference ICACCS 2019 in Eshwar College of Engineering
- Published a paper Robotic Arm for welding in international conference ICRAET 2019 in SKCET
- Published a paper Design and fabrication of home automation in international conference ICRAET 2019 in SKCET
- Published a paper Automated Metal Sorting System Based on Weight and Color of the Specimen in international conference ICRAET 2018 in SKCET.
- Published a paper Design and fabrication of Human Assisting Robot in international conference ICRAET 2017 in SKCET.
- Published a paper MODELING AND VECTOR ANALYSIS OF PROSTHETIC HAND USING HYBRID MECHANISM International conference ICARMS17 in SRM UNIVERSITY.

## **National Conferences:**

- ❖ Attended PG QIP Certification Program at IIT Patna
- ❖ Attended FDP on Recent Advances in Renewable energy for sustainable development 20.01.2025 to 24.01.2025 at Amit University
- ❖ Attended FDP on Advanced Technologies for Energy Efficiency & Sustainability, Sustainability at Sree Dattha Institute Of Engineering And Science. Feb 2025
- ❖ Attended FDP on Strategic Planning & Management, 2024
- ❖ Attended FDP on Research Challenges in Artificial Intelligence and Robotics,2023
- ❖ Attended FDP on ADDITIVE MANUFACTURING FOR ENVIRONMENTAL SUSTAINABILITY – 24.11.2022-25.11.2022 at Skcet
- ❖ Attended FDP on Analysis of Engineering System Using Creo -15.10.2022 to 20.11.2022 at Bharatiya Vidya Bhavan's Sardar Patel College of Engineering in collaboration with SAE India Western Section
- ❖ Attended FDP on Industrial Automation – 18.02.2022-23.02.2022 at Hindustan College of Engg&Tech
- ❖ Workshop on Product development Using Fusion 360 – 05.07.2022 to 06.07.2022 at USAM CADD soft Solutions
- ❖ FDP on Microsoft Azure Fundamentals – 13.06.2022 – 18.06.2022 at online ICT Academy
- ❖ AICTE ATAL FDP on Robotics & IR 4.0- 25.10.2021 – 29.10.2021
- ❖ FDP on Funding Projects & IPR – 07.06.2021 – 09.06.2021
- ❖ FDP on Research perspective in AI, ML, DL and IOT – 17.05.2021 – 05.06.2021 at KL university
- ❖ AICTE ATAL FDP on 3d Printing and design - 7.09.20 - 11.09.20
- ❖ AICTE ATAL FDP on AR/VR - 17.8.20 to 21.8.20
- ❖ AICTE FDP on Computer Integrated Manufacturing ,NITTTR - 25.5.20 to 29.5.20
- ❖ FDP on Moodle learning management software by iit Bombay,
- ❖ Attended Machine Learning and Deep Learning Faculty development program conducted by Mepco Shelenk Engineering College, Sivakasi on 11.11.2019 to 22.11.2019.
- ❖ Attended PLC and HMI Faculty development program conducted by VLAND E & C (Pvt.) Ltd., Coimbatore on 04.11.2019 to 05.11.2019.
- ❖ Attended ESIM workshop 21.09.2019 at Dr. Mahalingam College of Engineering and Technology, Pollachi
- ❖ Attended Product design Engineering using Fusion 360 Faculty development program conducted by ICT academy on 29.7.2019 to 02.08.2019 at SKCET
- ❖ Attended NITTTR workshop on Haptic Technology for Design of Soft Robots 10.6.19 to 14.6.19 at SKCET

## **Conference Attended**

- Attended an International Conference On Innovations In Robotics, Intelligent Automation And Control (Iciriac2024), Tittle , "Design and fabrication of library management bot", 2024

- Attended an International Conference On Innovations In Robotics, Intelligent Automation And Control, Tittle," Braille board actuates text into braille code using solenoid actuator, AIP Conference Proceedings, 2024
- Attended an 4th International Conference on Computing Communication and Networking Technologies (ICCCNT), Tittle "Detection of Adulteration in Spices, Milk, Fruits", Delhi, India, 2024
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## Awards

- Best Mentor Dronachayra award at Tamilnadan Kart Racing Championship
- Best faculty Dr Radhakrishnana Award
- Best Project Coordinator Award
- Young Faculty Award

### Academic Activity

S.no	Name of the Industry	Year
1.	MOU – Deep Vision tech Ai Incubation space	2024
2.	COE in SKYlab -Skyriders Aero solutions	2024
3.	COE – Industry 4.0 and MOU- Maxbyte technologies	2024
4.	Eyantra lab	2023
5.	MOU – Deep Vision tech Ai <ul style="list-style-type: none"> <li>• 2021 – 5 Students intern</li> <li>• 2019 – 1 job offer</li> </ul> 2019 – 9 Students intern	2022

### Faculty Development Activity/Workshops

S.no	Name of Events	Date	Resource Person
1.	MOU Signing Deepvision tech Incubation center	29.10.2024	Deep vision tech
2.	A two days workshop on ROS	26.06.2024 27.06.2024	Anya Robotics
3.	Summer Camp on 3D Printing and Robotics	22.5.2024 to 24.5.2024	SKCET

4.	A Two day Workshop and Hands on Training on UAVs	10.3.2023 11.03.2023	-	Mr.M.Yuvaraj Proprietor & CEO, Skyrider Aerosolutions, Chennai
5.	Design with Vision - Get Started with AR	23.01.23- 24.01.23		Mr. Ravi Kumar, CEO Hackwit Technologies Pvt. Ltd. and Mr. Ajin Benito, Lead Developer - Unity & Project Manager, Hackwit Technologies Pvt. Ltd
6.	Two days Fusion 360 FDP	05.07.2022 06.07.2022		Robin, Engineer USAM CAD Soft Solution, Coimbatore.
7.	Taking First Step Towards Machine Learning	11.04.2022		Dr T Sujatha, Associate Professor, Department of AI&DS
8.	How to Process the Data	07.04.2022		Dr. Sajeev Ram Arumugam Associate Professor Department of AIDS SKCET
9.	Talk by Industry Expert Session - My journey from college to Social Entrepreneurship	27.01.2022		Mr.Bonny Dave - Co- founder of Trestle Labs
10.	Deep Vision tech – MOU	22.11.2021		Jayasudan Munsamy Founder & CEO, DeepVisionTech.AI

#### Contact Details

Mr T Vignesh  
ECE Department

