

# Faculty Profile



**Vasanth kumar.CH, M.Tech., (Ph.D)**  
Assistant professor (S.G)

## **HIGHLIGHTS:**

- Number of Journal Publications:30
- H-Index: 3
- Project Funding Received: NIL
- Patents Published:6
- Patents Granted:1

## **PROFESSIONAL LINKS:**

- Scopus ID: 57191841742
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57191841742>
- Google Scholar ID:  
<https://scholar.google.com/citations?user=F1zm4CAAAAJ&hl=en&authuser=1>
- Anna University Faculty ID: 264810
- AICTE Faculty ID: 0609592501
- Anna University Supervisor ID: NA
- LinkedIn: <https://www.linkedin.com/in/vasanthkumar-ch-ph-d-91266a15/>

## **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: 10 years 2 months
- Industrial Experience: 2 years 2 months

## **INTERNATIONAL EXPOSURE:**

- Development of EBPR batch process with Korean FDA
- Served as a ESD project in charge for atorvastatin purging process – US FDA

## **AREA OF SPECIALIZATION:**

- ROBOTICS
- IOT
- IIOT
- Industrial automation
- Batch process automation
- Control system s

- Mobile robotics
- Sensor technology

#### **Ph.Ds AWARDED WITH DETAILS:**

<b>S:No</b>	<b>Name of Scholar</b>	<b>Title of Thesis</b>	<b>Year of Completion</b>	<b>Full Time/Part Time</b>

#### **Ph.Ds GUIDING:**

- **Full Time Scholars: NA**
- **Part Time Scholars :NA**

#### **SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:**

- As an external adjunct faculty for National institute of Fashion technology , Chennai, Hyderabad and Ahmedabad

#### **PATENTS PUBLISHED/GRANTED:**

- “3 Finger Flex gripper” Application id: 202141061653, Names of Inventors Vasanthkumar.Ch Date of filing : 30/11/2021
- “A Vacuum gripper for lifting objects” Application id : 201944046159 , Names of inventors : Vasanth kumar.CH, Anshu Raj, Prabhat rathi, Karan Gupta , Saurav Vaja. Date of filing : 13/11/2019.
- “An Artificial facial expression simulation system” Application id : 202041000757 A, Names of inventors : Maria Robert Stalin, John Vivek Venugopal, Vasanth kumar.CH Date of filing : 13/11/2019.
- Inventors : Vasanth kumar.ch , Raghavendra rao.V, A vacuum suction gripper patent grant no 515222.

#### **COURSES CERTIFIED:**

Introduction to IOT – coursera

Design of CPS with ARM processor using Embedded C – coursera

#### **ACHIEVEMENTS AND AWARDS:**

- All India runner up for STM ARM innovation challenge 2022.
- Top 20 researchers – SEC 2023
- MTS -NANDA AWARD for the year 2022-2023.
- ARM- STM runner up for the HACKATHON -2022
- Best paper presentation award in Dr. Parivendar Research colloquium -2019
- Best paper presentation in ICPCSES 2018

#### **SPECIAL SESSIONS DELIVERED:**

- Guest talk on “future materials for 3d printing” at SEC
- Guest talk on “ IOT in fashion technology” NIFT,Chennai
- Guest talk on “Advanced robot prototypes in industry” SRMIST , ktrcampus, Chennai .
- Mobile robotics workshop as expert member in SEC.
- Guest talk on “Hardware for AR/VR technology” MOP vishnava Chennai campus .

## **CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:**

- FDP on Target based testing using LDRA tool suites, conducted by Dept. of Computer science, SRMIST Chennai, Dec'2019.
- Attended an FDP on “ARM cortex matlab Simulink based embedded systems and its application “conducted by Department of EEE. SRM Institute of science and technology, on 16th Feb, 2018.
- Attended an FDP on “Micro and Nano manufacturing “conducted by Department of Mechanical engineering, SRM Institute of science and technology, on 19th May, 2017.
- Attended an FDP on “ Embedded software testing- Safety and security” on 29th September , 2016 conducted by Department of Software Engineering, SRM Institute of science and technology
- Attended an FDP on “Intellectual property rights and innovations” conducted by Department of Mechanical engineering, SRM Institute of science and technology, on 6th January 2017.
- Attended a National workshop on Model based design and control of mechatronic and robotic systems at VIT, Chennai campus on 15th October 2016
- Attended a short term course on VIRTUAL INSTRUMENTATION in ATIEPI Ramanthapur, Hyderabad.
- Attended a three-day national workshop on Virtual Instrumentation conducted by TRIDENT TECHLABS Pvt.Ltd.
- Attended a three-day national workshop on ANALYTICAL INSTRUMENTATION in VNRVJIT.
- Attended a short term course on FLOW MEASUREMENT AND CONTROL in ATIEPI Ramanthapur, Hyderabad.
- Attended a short term course on DSP PROGRAMMING AND APPLICATIONS in ATIEPI Ramanthapur, Hyderabad.

## **PROFESSIONAL MEMBERSHIPS:**

- IEEE – member
- IAENG
- IRED

## **OTHER DETAILS (If any):**

- DART platform – Doosan collaborative robots , RoboDK
- Programming IRB1410 and IRB 360 robots for task and application specific methods in both online and off line programming
- Robot studio – 2019 package with automation.
- Packages known: Lab view (virtual instrumentation). 2013 with signal processing and web modules, Matlab with Video acquisition and processing module, Python with Localization module (EKF).
- Designing packages known: Solid works ver. 2017, Auto cad
- RS Logix and linx – Plc programming
- Hands on with DCS and SCADA system in Pharma industry
- Arduino IDE with integration of multiple sensors
- Matlab modelling and labview based physical modeling of systems
- Verilog Programming Using Quartus and Xilinx
- Node MCU interfacing for IOT using blynk and cayenne platforms and real time monitoring and control of devices