

# Faculty Profile–Dr K Badari Nath

## Brief Profile

Dr. Badari Nath K, an Associate Professor in the Department of Computer Science and Engineering at R.V. College of Engineering (RVCE), Bengaluru. Served the IT - Hardware & Software Industry for 15 Years and currently serving at RVCE from last 15Years. Over 30 Years, successfully designed, developed, manufactured and marketed many **Make in India** (Import Substitutes) Products for Multiple Industries like Healthcare, Textile and Education Industry with number of satisfied Private and Government customers, all over India.



Some of the Indigenous products are, Indias First “Fully Automatic Computer Controlled Textile Card Cutting Machine”, Worlds First Master Slave-Design Partition Based Electronic Jacquard Controller for Indian Handlooms and Power Looms (patent granted), Windows based C#.net Software for Textile Image Processing – used pre-processing of textile images, Mixing of design components, generation of proprietary files for Electronic Jacquards, Design & Development of electronic Jacquard, Software, Mechanisms for Mat weaving Handlooms (in collaboration with RuTAG Cell, IIT Madras), Designed & developed many Laboratory Prototyping Kits: 80x86 based RV All-In-One Kit, 80x51 based Microcontroller Development board, RV ARM LPC 2148 Microcontroller Kit, RV IOT ESP32 Kit”, used and adopted in many colleges to conduct their Labs and for Prototyping.

## Personal Information

- **Name:** Dr. Badari Nath K
- **Designation:** Associate Professor
- **Department:** Department of Computer Science and Engineering
- **Email:** badarinath.kb@rvce.edu.in
- **Phone:** (O)9945124747

**Google Scholar :** <https://scholar.google.com/citations?user=LQjUpZAAAAAJ>

**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=56419987600>

**webofscience :** <https://www.webofscience.com/wos/author/record/12375734>

**Youtube Channel :** <https://www.youtube.com/channel/UckYcHJIHAcDqvg-6MNvN0FQ>

## Domain of Expertise

Design of Smart Systems for different Industrial Sectors

## Research Focus

- **Primary Area:** Embedded & Real time systems, Image processing, Cloud Computing & IOT based Systems
- **Allied Areas:** Microcontrollers, IT Applications for Health care, Textiles, Industrial Automation & Education

## Academic Qualifications

- **Ph.D.:** [Faculty of Computer & Information Sciences], [Visvesvaraya Technological University], [2019] (**Thesis Title** -*Improvised Electronic Jacquard Control System for Handloom & Power looms using Master-Slave Architecture and Design Partitioning*)
- **M.E:** (Applied Electronics) [PSG College Of Technology, Autonomous Institution under Bharathiar University, Coimbatore, 1992] under GATE scholarship
- **B.E./B.Tech:** (Electronics & Communication Engineering), [UVCE, Bangalore University, 1989]

## Professional Experience

Experience			
S.No	Institute/College/Industry	Job Title	Duration
1.	UVCE, Bangalore	Teaching Assistant	1year (Aug1989-Aug1990)
2.	RVCE, Bangalore	Lecturer, Electronics & Communication Department	6Months (04-03-1992 to 14-09-1992)
3	RVCE, Bangalore	Lecturer, Computer Science & Engineering Department	2.2 Years (15-09-92 to 14-11-1994)
4	Gurubrahma Concerns, Bangalore	Director, GC's Thantragnan (Training Division of Gurubrahman Concerns)	8 Years (15-11-1994 to Dec 2002)
5	GC's Technologies, Bangalore	Director, R&D GC's Technologies	7 Years (Jan 2003 to July 2010)
6	RV College Of Engineering, Bangalore	Associate Professor	29-07-2010 to Till Date

## Publications & Patents

### Journal Publications

1. Badari Nath K, Shantharam Nayak, Revanur Ambareesh, S.Ganesan, C.Srinivasa Reddy, " Design & Development of Electronic Jacquard for Korai mat weaving loom ", Indian Journal of Fabre & Textiles Research (IJFTR,CSIR-NISCAIR),Vol.44, **September 2019**, pp 360-364, (ISSN: 0971-0426, <http://nopr.niscair.res.in/> , scopus indexed)
2. Badarinath Kamasetty, Mahesh Renduchintala, Lochan Lingaraja Shetty, Suresh Chandrashekar, Rajashree Shettar, "Design & Development of Portable smart traffic signalling system with cloud-artificial intelligence enablement", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 26, No.1, **April 2022**, pp. 116-126, ISSN: 2502-4752, DOI:10.11591/ijeecs.v26.i1.pp116-126 (scopus indexed)
3. Badari Nath K, Suhas Poornachandra, Tanmay S H, Yatish H R, Vishal Gowda, Venkatesh D N, "*Novel Smart Water Metering and Management System for Smart Cities*", International Journal of Computer Sciences and Engineering, Vol.7, Issue.3, pp.136-143, **2019**. (e-ISSN: 0975-3397, <http://www.enggjournals.com/ijcse/index.html>)
4. Prof. Badari Nath. K, Prof. Shantharam Nayak , "High Performance Software Tool For Saree Weaving Using Electronic Jacquards", International Journal of Innovative Technology & Research,(IJTR), Vol 4, Issue. 4, **2016**, ISSN 2320-5547
5. Prof. Badari Nath. K, Prof. Shantharam Nayak, "Design of Novel Electronic Jacquard with MasterSlave Architecture & Design Partitioning", International Journal Of Innovative Technology And Research (IJTR), Vol .4, Issue .4, June – July **2016**, pp. 3139 – 3146, ISSN 2320-5547 (web of science / scopus indexed journal)
6. Roopa.M.R, BadariNath.K, "Textile Image Processing for Real-Time Application", published in International Journal of Mechanical and Computer Applications, Vol-1,Issue No.4,Page No. 70-74,**August 2013** (ISSN 2320-6349)
7. GururajP,BadariNath K, "Cloud Computing Server Operating System Availability Enhancement by Utilizing the USB Flash and SD Card Devices", published in Int. Journal of Scientific and Research Publications, Vol.3,Issue4,**April 2013** (ISSN 2250-3153)
8. Srinivas Nakka, BadariNath.K, " Emulation of Automotive Communication protocol Single Edge Nibble Transmission(SENT) using Aurix Family of Microcontrollers", in the International Journal of Computer Trends and Technology, Volume 4, Issue 6-**2013** (ISSN:2231-2803)
9. Supritha K, Badari Nath K, " Development Operations for Continuous Delivery", International Research Journal of Engineering and Technology (IRJET),Volume: 06, Issue:05, pp.5835-5840, **May2019** (e-ISSN:2395-0056,p-ISSN:2395-0072)
10. Akarshita Shankar, Ramesh Shetty, Badari Nath K, "A Review on Phishing Attacks", International Journal of Applied Engineering Research, Volume 14, **Number 9 (2019)**, pp. 2171-2175 ( ISSN 0973-4562 )
11. Tanvi Chadaga , Sriya C Elavarthy, K.Badarinath, " Smart Rooftop Irrigation System", International Journal Of Science & Engineering Development Research(IJSDR),Volume-4,Issue-8,**2019**, (ISSN 2455-2631, <https://www.ijcdr.org/index.php>)
12. Sukriti Yadav, Rakshith H.V., K. Badari Nath, " A Survey on Cloud Computing Providers and Applications", International Journal of Computer Sciences and Engineering (IJCSE), Vol.8, Issue.5, **May 2020** (E-ISSN: 2347-2693)

13. Jayashri V , K Badari Nath, “IoT Data Analytics Pipeline using Elastic Stack and Kafka”, International Journal of Computer Sciences and Engineering(IJCSE), Vol.8, Issue.5, **May 2020** (E-ISSN: 2347-2693)
14. Rohith Raj S, Dr. Badari Nath K, “ A Comparative Study of using Virtual Machine and Docker Container for deploying a ReactJS web application”, International Research Journal of Engineering and Technology (IRJET), Volume: 07,Issue: 05, **May 2020** (e-ISSN: 2395-0056; p-ISSN: 2395-0072)
15. Varsha S K, Dr.K. Badari Nath, Anitha Sandeep, “ ANALYSIS OF FRAMEWORKS AT BACK END DEVELOPMENT FOR CUSTODY BANKING SECTOR”, International Research Journal of Engineering and Technology (IRJET), Volume: 07, Issue: 04, **Apr 2020** (e-ISSN: 2395-0056 , p-ISSN: 2395-0072)
16. Anil Kumar M S , Badarinath K , “Automation of Pipeline through Jenkins”, Wutan Huatan Jisuan Jishu (WHJJ Journal), Volume XVI, Issue VI, **JUNE/2020** , Page No:349 -355 (ISSN:1001-1749; <http://whtjtsjs.cn>)
17. Anam Fathima, Dr. Badarinath K, “Trends in Automated Regression Testing Frameworksand Techniques” , High Technology Letters, Volume 27, Issue 6, **2021**, ISSN NO : 1006-6748, doi.org/10.37896/HTL, <http://www.gjstx-e.cn/>
18. Sarayu Vyakaranam, Badari Nath K, “A Bayesian Approach to Evaluate Online Rating Systems”, International Journal of Scientific Research and Engineering Development, Volume 4, Issue 3, **May-June 2021**, ISSN:2581-7175, [www.ijsred.com](http://www.ijsred.com)
19. Abijith Trichur Ramachandran, Abhishek R,Mamatha G.S, Rashmi R, Badrinath K, Manojkumar Parmar, “Understanding Migration from Monolithic to Microservice Architecture and its Challenges”, International Journal of Scientific Research and Engineering Development (IJSRED), Volume 4, Issue 3, pp.1743-1752, May **-June 2021**, ISSN : 2581-7175, [www.ijsred.com](http://www.ijsred.com)
20. Purvi G R ,Dr. K Badari Nath,” Comparative Study of MongoDB and Other Databases”, International Journal of Scientific Research and Engineering Development— Volume 4 Issue 3, ,pp.1356-1363, **May -June 2021**, ISSN:2581-7175, [www.ijsred.com](http://www.ijsred.com)
21. Ganesh J Bannur , Ashutosh M Bharadwaj , Allen Joel Lobo, Ishan Kaushik, Dr. K Badari Nath, “Smart Parking Guidance System”, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181,Vol 10,Issue 12, Special Issue – 2022, RTCSIT - 2022 Conference Proceedings (<https://www.ijert.org/rtcsit-2022-volume-10-issue-12>)
22. Dr.K Badari Nath, Ranjith kumar M E, Nethravathi T,Aman Kumar, “Voice Based Email System For Visual Impaired Using AI”, International Research Journal of Engineering and Technology (IRJET),Volume:10, Issue:06, Jun 2023, e-ISSN: 2395-0056  
( <https://www.irjet.net/archives/V10/i6/IRJET-V10I6140.pdf>)
23. Shamitha S H, Dr. Badarinath K, “Sign Language Recognition Utilizing LSTM And Mediapipe For Dynamic Gestures Of ISL”, International Journal for Multidisciplinary Research (IJFMR), Volume5,Issue5,September-October2023,E-ISSN:2582-2160 (<https://www.ijfmr.com/papers/2023/5/6868.pdf>)
24. Tejas Kumar V, Talapaneni Varshith Chowdary, Vikram R Patel,Dr K Badarinath,”Smart Fruit Ripeness Detection Integrating Image Processing and Temperature Sensing Technologies”, International Journal of Engineering Research & Technology (IJERT),Volume 11, Issue 08, RTCSIT – 2023, ISSN: 2278-0181.

## Conference Papers

1. Prof.Badari Nath.K, Dr.Shantharam Nayak, Dr.Ganesan, “Design & Development of Electronic Jacquard, Mechanism & Software to Korai Mat Weaving Loom”, International Conference on Innovative Research in Science, Technology and Management, **National University(NUS), Singapore, 16-17 September , 2017 (Excellent Paper Award)**
2. B Chirag, AE Manjunath, BadariNath.K, "Design and implementation of cost effective surveillance robot", at IEEE Asia-Pacific Computer Aided System Engineering (APCASE) conference, 10-12 Feb. 2014, South Kuta, Indonesia
3. B Chirag, AE Manjunath, BadariNath.K, "An Intelligent cloud based cost effective surveillance robot", IEEE 2nd International Conference on Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN), 26-27 December,2014, Surat, India
4. Ravi Kiran.M.D.T, BadariNath.K, "SAGA GIS - A Review", at International Conference On Research in Business Management & Information Technology, RNSIT, 2015, Benagaluru
5. Chandan N Bhagwat, Y Navaneeth Krishnan, K Badrinath, “Cloud based intruder detection system”, IEEE International Conference on Electronics and Communication Systems (ICECS)”, 26-27 Feb. 2015, Coimbatore, India .
6. RevanurAmbareesh, BadariNath.K, " Binary Image Scaling for Miniature Monochrome Embedded Displays Using Mathematical Discretization", at IEEE International Advanced Computing Conference at BMSCE, **June12-13, 2015,Bengaluru**
7. Shrutheesh Raman Iyer , Soumadeep Basu, Sukriti Yadav, Varun M Vijayanand, **Prof. K .Badari Nath** ,”Reasonably Intelligent Mirror “, IEEE 3rd International Conference on International Conference on Computational Systems and Information Technology for Sustainable Solutions **2018 (CSITSS-2018)**, 20-22<sup>nd</sup> December, RV College Of Engineering, Bangalore, India. **IEEE Xplore (ISBN: 978-1-5386-6078-2; pp. 302-306,doi: 10.1109/CSITSS.2018.8768748).**
8. Shivam Maheshwari , Siddhant Shrivatsava, Vatsalya Singhal, Vijay Ravi , Prof. K. Badari Nath , “Cost-effective and self-regulating digital noticeboard systems “, IEEE 3rd International Conference on International Conference on Computational Systems and Information Technology for Sustainable Solutions **2018 (CSITSS-2018)**,20-22<sup>nd</sup> December, RV College Of Engineering, Bangalore, India. **IEEE Xplore (ISBN: 978-1-5386-6078-2; pp. 240-246, doi: 10.1109/CSITSS.2018.8768775)**
9. Dipayan Sinha, Karthik Cottur, Keerthan Bhat H, Guruprasad C , Badari Nath K Automated Billing System using RFID and Cloud, 22-23 March, i-PACT,VIT, Vellore, 2<sup>nd</sup> International Conference on Innovations in Power and Advanced Computing Technologies, **i-PACT-2019**, Technically co-sponsored by IEEE-IAS in association with IEEE-NPSS-VIT
10. Dr. Ganesan S. - RuTAG, IIT-Madras, **Prof. Badari Nath K. – RVCE**, “Design and Development of Mechanical and Electronic Jacquard Handloom for Fine-Korai-Mat Weaving”, 1<sup>st</sup> International Conference on Rural Technology Development and Delivery: RuTAG and its synergy with the other initiatives, **March 9-11, 2018, IIT Delhi, India**, Paper ID 7-Page 17

Conference proceedings published in **Springer book series: Design Science and Innovation**. Springer, Singapore, pp 335-346.

[https://link.springer.com/chapter/10.1007/978-981-13-6435-8\\_25](https://link.springer.com/chapter/10.1007/978-981-13-6435-8_25)

**Print ISBN 978-981-13-6434-1, Online ISBN 978-981-13-6435-8**

11. Sathvik C, Srishti Moorthy, Nidhi K, Dr. Badari Nath K, “SmartZ COVID-19 Smart Door”, 2021 IEEE International Conference on Computation System and Information Technology for Sustainable Solutions

(CSITSS), Hosted by RV College Of Engineering, Bangalore and Florida International University, Miami,USA, 16<sup>th</sup> **December, 2021**, ISBN: 978-1-6654-0610-9/21. **(Best Paper Award)**  
<https://doi.org/10.1109/CSITSS54238.2021> ; <https://ieeexplore.ieee.org/xpl/conhome/9682669/proceeding>

12. Harsha Vardhan Tomar, Anagha Anand, Harsha H L, Anubhav Deshwal, Badari Nath K, IEEE International Conference on Data, Decision and Systems (ICDDS 2022), BMS College Of Engineering, Bangalore, December 2-3, 2022
13. Vinay R, Dr K Badarinath, “Quantum video classification leveraging textual video representations”, **4th International Conference on Communication, Computing and Industry 6.0, CMRIT, December, 2023**
14. Prafulla, Badrinath KB,”Sustainable Energy Harvesting from Footsteps: Unleashing the potential of Piezo Electric Sensors”, 6<sup>th</sup> International Conference on Inventive Computation and Information Technologies, ICICIT, 16-17, April 2024, Stamford International University, Bangkok, Thailand.
15. Dr. K Badari Nath, S Prajwal Narayana, “Web-server controlled rover with robotic arm and object detection”, 8<sup>th</sup> IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions (CSITSS), held from 7<sup>th</sup> to 9<sup>th</sup> November, 2024, RVCE, Bangalore
16. Dr. Badari Nath K, Aakanksh N, Akash M. Tambake, Arahant M, Aryan Jha, “An Extensible and Modular Cloud-Enabled Vehicle Tracking System Using Raspberry Pi Zero 2 W”, 8<sup>th</sup> IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions (CSITSS), held from 7<sup>th</sup> to 9<sup>th</sup> November, 2024, RVCE, Bangalore
17. Dr. K Badari Nath , Shreyas Shankar , Sumith S Tantry , S Varun , Vinay Kalagi, “Design and Development of RV-IoT Board - Prototyping platform for designing IoT projects”, 8<sup>th</sup> IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions (CSITSS), held from 7<sup>th</sup> to 9<sup>th</sup> November, 2024, RVCE, Bangalore
18. Khushal A, Kishore A, Tejas Neswi, Mohana, K Badarinath, “Real Time Smart Forest Fire Detection and Monitoring System Using IoT and Machine Learning”, 8<sup>th</sup> IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions (CSITSS), held from 7<sup>th</sup> to 9<sup>th</sup> November, 2024, RVCE, Bangalore

## Books/Book Chapters:

**Chapter 25**, Design and Development of Mechanical and Electronic Jacquard Handloom for Fine-Korai-Mat Weaving, **Rural Technology Development and Delivery, Design Science and Innovation, Springer, Singapore**, pp 335-346, 2019 Print ISBN 978-981-13-6434-1, **Online ISBN 978-981-13-6435-8**

## Patents :

Patent No – 447162 [ Application No. 459/CHE/2013, DateOfFiling-02/02/2013, DateOfGrant - 24/08/2023, Patentee - KAMASETTY BADARINATH, " A control system for variable hooks of an electronic jacquard"]

## R & Grants & Consultancy Projects

### (Ongoing & Completed Consultancy Projects)

Title of Project	Sponsoring Agency	Amount of grant	PI OR CO-PI	Present Status
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1.	Consultation for Improvement in Hardware & Software Design for computer controlled Fully Automatic Card Punching Machine	Aruna Industries, Manufacturers of Handlooms & Handloom accessories, Authorised CSTRI, Govt. Of India, Suppliers	2,00,000/-	PI	Completed [ 2010-11]
2.	Design , Development, Upgradation, Production of RV-AllInOne-Interface Card, RV-USBbased8051 cards, Accessories for Conducting PC and Microcontroller based Training and prototype/project development	RVCE, SIT, REVA, Jain University, BMSCE, Bannariamman Educational Trust	10 Lakhs	PI	Completed [ 2012-18]
3.	Development of C Library for different Interpolation algorithms to be adopted in Biomedical Instruments.	Micro Lab Instruments	Rs.10,000/-	PI	Completed [ 2010-11]
4.	Development & Integration of Software Modules for Electronic Jacquards for Indian Handlooms & Power looms	Sai Handloom Industries, (Manufacturers of Electronic Jacquards & textile machineries, Authorised CSTRI, Govt. Of India Suppliers), Hindupur, Andhra Pradesh	Rs.15Lakhs	PI	Completed. [ 2011-17]
5.	Graphics Application using C#.net for Industrial requirement	GCS Technologies, Bangalore	Rs.1,00,000	PI	Completed [ 2013-15]
6.	Design & Development of electronic Jacquard, Software, Mechanisms for Mat weaving Handlooms	Rural Technology Action Group (RuTAG), IIT Madras	Rs.1,00,000	PI	Completed, [ 2016-17]
7.	Development of Software and Design of Hardware infrastructure for Strain Monitoring of White topping on URBAN ROADS	Srushti consultants	Rs.9,36,000	CO-PI	Completed [ 2015-17]
8.	Cloud based framework for securing .net based software applications	Abhi Systems, Electronic System Manufacturers, Bengaluru	Rs.50,000/-	PI	Completed [ 2014-16]
9.	Android Communication Interface & App Development to BioMedical Analyser	Micro Lab instruments, Ahmedabad	Rs.3,00,000	PI	Completed [ 2016-17]

10.	Application Development on Windows 7 to 10 platforms using .Net C Sharp tools for ELISA reader	Micro Lab instruments, Ahmedabad	Rs.2,75,000	PI	Completed [ 2016-18]
11.	Windows CE 6.0 Application Development, with Multitasking for Coagulation Analyser	Micro Lab instruments, Ahmedabad	Rs.3,00,000	PI	Completed [ 2016-18]
12.	Android Communication Interface & App development to Bilurubin Testing.	Micro Lab instruments, Ahmedabad	Rs.2,00,000	PI	Completed [ 2017-18]
13.	Windows based Application Development for Luminometer	Micro Lab instruments, Ahmedabad	Rs.1,00,000	PI	Completed [ 2017-18]
14.	Software Framework Development for Textile Weave,Color Pattern Designing and Simulation	IORA Technologies, Bengaluru	Rs.1,00,000	Co-PI	Completed [2018-19]
15.	Software Framework for Bitmap Designs to Mat Designs suitable For Electronic Jacquard fitted to Mat Weaving Loom.	RuTAG Cell, IIT Madras	Rs.50,000/-	PI	Completed [2018-19]
16.	ARM Microcontroller based All-In-One Product Prototyping and Lab experiment Kit (successfully designed the boards and manufactured 40 kits for CSE, RVCE Lab)	RSST (Mfr: Orion Computers, Bangalore)	Rs.4,24,800	PI	Completed [2019-20]
17.	Software Upgradation of Electronic Jacquard for 5372 Hooks (Client- Mysore Silks, Govt. Of Karnataka)	Venkateshwara Industries, Hindupur	Rs.50,000/-	PI	Completed [2020-21]
18.	Software for Madur Superfine Masland Design Mat/ Korai Superfine Mat Using Electronic Jacquard Handloom	RuTAG Cell, IIT Madras	50,000/-	PI	Completed [2022-23]
19.	Porting of Serial Communication Module from Windows Platform to Linux Platform, for BioMedical Analyzer.	MicroLab Instruments	15000/-	PI	Completed [2022]
20.	Software Development for Time Switch	Electronic Automation Private Limited, Bangalore	50,000/-	PI	Completed



21.	Design & Development of HW and SW for Wifi enabled Industrial Handhelds using RaspberryPi-Pico and related C#.net Textile Conversion Softwares for Electronic Jacquards	Anil Industries, Hindupur	2,00,000/-	PI	Completed [2022-23]
22.	Design & Development of RV-IOT-Board with Design of Experiments	CSE Dept, RVCE / Orion Computers	7,08,000/-	PI	Completed
23.	Design of Software Framework and Robot Controllers for Entertainment Robotics	www.robot-entertainment.com	50,000/-	PI	completed
24.	Avionics Data Aggregator	AutoTEC Systems Private Limited, (Adani Defence and Aerospace Group)	3,48,000/-	PI	Completed
25.	Design & Development of digiPICK , an intelligent textile instrument for reading Thread Density (Reed/Pick) of Woven Fabrics and Loop Density of Knitted Fabrics	Paramount Instruments, Delhi	23.6 Lakhs	PI	Ongoing
26.	Owner Registration System (ORS)	ATDXT PTE LTD, Singapore	1,77,000/-	CO-PI	Ongoing
27.	Vehicle Tracking System	ATDXT PTE LTD, Singapore	1,77,000/-	PI	Ongoing
28.	Design & Development of Prototypes of “AI-Image Driven Rice-Grain Analyzer”	Swan Sorter Systems Pvt. Ltd, Bangalore	4,63,000/-	PI	Ongoing
29.	Enhanced control System for Teller Loop Pneumatic Tube System	Control Technics, Bangalore	8,00,000/-	PI	Ongoing
30.	Simulation Software – Chemistry Analyzer	Microlab Instruments, Ahemadabad	5,00,000/-	PI	Ongoing

## Professional Memberships

- MISTE

## Awards & Recognitions

- Secured 1st Rank in M.E(Applied Electronics) @ PSG College Of Technology
- Awarded "Excellent Paper Award", at ICIRSTM-2017, International Conference held at National University [NUS], Singapore, 2017
- Appointed as Member - Technical Panel of RUTAG - IIT Madras, 2017 and received Appreciation for the services rendered to RuTAG Cell, IIT Madras.
- Best Teacher Award – from ISTE-RVCE chapter, for the year 2020
- Best / Deserving Case Study Report, at Mini Symposium on P2BL, organized by IUCEE (Indo US Collaboration for Eng. Education), held on 9th,10th November,2021
- Best paper Award, for the paper "SmartZ COVID-19 Smart Door", at IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions [CSITSS 2021] held on 16th and 18th December 2021 organized by RV College of Engineering, Bangalore and Florida International University, Miami, USA
- Winner, National Level Quiz Competition, @ National Level FDP on "Embedded Systems- An Application driven approach", Conducted by AICTE, ARM and ST Microelectronics
- Guided students to secure, 1st Place at "All India Student Technical Paper Presentation" by Infineon, 2014
- Guided students to secure, Best Poster Presentation, at 27th CSI karnataka Students Convention, 2013
- Guided students, to Secure 2nd best project, RVCE-CSE, 2021, for the project “Design & Development of Portable smart traffic signalling system with cloud-artificial intelligence enablement”.
- Guided students to secure 2nd Place in “AI for Social Good” Hackathon conducted by IEEE Bangalore Section and CDAC, Bangalore, 11th and 12<sup>th</sup>, June 2022 (topic: SmartZ Door for Covid management)
- Guided students to secure 1st Place in “INNOVIA -2022” during MANTHAN - 2022 Hackathon conducted by Bangalore Institute Of Technology, 22nd and 23rd ,June 2022
- Guided Multiple student batches, to secure many prizes in number of Hackathons

## Student Supervision

- Ph.D. Candidates: 01
- M.Tech/M.Sc. Students: 01
- Undergraduate Research Mentees: 32

## Teaching

### Core Courses: [Current semester]

- [CS344AI] IOT & Embedded Computing
- [HS248AT] Universal Human Values

### Advanced/Lab Courses:

- Desing Thinking
- Applied Digital Logic Design & Computer Organization
- IOT & Embedded Computing

### Professional Roles

- Delivered/conducted over 50 Talks/Workshops on Prototyping and Product Development to multiple colleges/govt/pvt organizations.
- Instrumental in Design and development of number of industrial products which are import substitution and revolutionized Indian textile industry
- Over 1000+ satisfied clients from Govt., Semi Govt. and Private Industries are using the products.

### Responsibilities

- **Academic:** Student Counsellor, served as CTTO, serving as Skill Labs Co-Ordinator, IOT&EC Lab Co-Ordinator
- **Co-Ordinator** for RVCE-Art of Living Collaboration, facilitated conduction of YES+ (Youth empowerment Seminar) program to over 500+ students of RVCE and coordinating for gaining students AICTE-Activity Points

### External Connect

- **Industry Advisor:** Mircrolab Instruments, Venkateshwara Industries, Anil Industries, Orion Computers, Abhi Systems and engaged with multiple industries for consultancy projects and product development.
- Faculty, Happiness Program, YES+ programs of Art Of Living, conducted multiple workshops, covering hundreds of students, working professionals and businessmen