



Dr. K. SIVASAKTHI BALAN

Professional Summary

My mission is to help 100,000 Students and Young Entrepreneurs to become an Influenced Leader as well as to Live a Happy and Healthy Life.

- **Teaching experience of 20+ years.**
- **Heading MSME Incubation Centre** at Sri Sairam College of Engineering
- **Convenor for Mistry of Education – Institute Incubation Committee** of Sri Sairam College of Engineering, Bangalore.
- **Nodal officer for ARIIA at Sri Sairam College of Engineering** which was awarded as one of the **Top 50 Private Self-Financing Colleges in India**
- **Chief Co-ordinator for Sri Leomuthu Innovation Centre** of Sri Sairam College of Engineering, Bangalore, where more than 250 students are doing Research beyond their Academic Time.
- **Certified Graphologist** and a **Grapho-therapy Practitioner**
- **Active NLP (Neuro-Linguistic Programming) Practitioner.**
- **An Emotional Healer** and a **Committed Leadership Trainer.**
- **A promising Law of Attraction Coach**
- **Have received Rashtriya Gaurav Award** from **India International Friendship Society, New Delhi.**
- **Have Received Best Familiar Male Faculty Award** in **SIAA -2017** from **Association of Scientists Developers and Faculties** at Cochin
- **Chief Co-ordinator for Industry Institute Partnership Cell** of Sri Sairam College of Engineering, **Sponsored by AICTE, Delhi.**
- **Our Borewell rescue Robot** has registered its name in the **Indian Book of Records**
- **Our Borewell rescue Robot** has been selected as one of the **Top 100 Records in the World Book of Records.**
- **Our Fire Fighting Drone** had participated in **MasterPiece 2017** held in **Dubai** organized by **Living Talents.**

- Our **Students Satellite Team** had participated in **Singapore Space Challenge 2018** organized by **Singapore Space Centre**.
- Worked as **Head for Mechanical Engineering Department** from January 2015 to October 2017.
- Worked as Head for Training and Development Cell for 7 Years.
- Hosted Several Campus Placement as off-campus placement
- Hosted several Training programs for students and career Guidance Programs.
- Certified Internal Auditor for ISO 9001-2015
- Published articles in refereed National and International journals
- Participated in several conferences organized by reputed universities, B schools in India
- Organized various entrepreneurial awareness and development programs for engineering and management students.
- Mentoring several Student projects as well as Competitions at both Nationals and international levels.
- Organized 2 International Conference at our college.
- The only Team **Presented the Research Idea** in the World's **1st International conference on Maritime Autonomous Surface Ships held at Busan, South Korea**
- **Grant fetched**
 - **Got MSME Incubation Centre approval worth ₹. 12.5 Crore for 5 Years (2019-2024).**
 - **₹. 10,00,000/- from DST- Lockheed Martin – Tata Trusts – India Innovation Growth Programme (IIGP) 2.0 - University Challenge 2018 – for our Research**
 - **₹. 10,00,000/- from AICTE – Industry Institute Partnership Cell**
 - **₹. 6,50,000/- from Sieger Innovation, Hyderabad for Manufacturing of Multi-Seat Solar Vehicle**
 - **₹. 1,00,000/- from Innovation & Entrepreneurship Development Cell for the Project titled “Borewell Child Rescue Robot”**
 - **₹. 1,00,000/- from Innovation & Entrepreneurship Development Cell for the Project “Robotic Arm for Physically Challenged People”**

Professional Qualification

1. **Ph. D. – Mechanical Engineering:**

Anna University, Chennai at 2016

2. **M.E. - Thermal Engineering:**

Sri Venkateshwara College of Engineering, Chennai, affiliated to Madras University in 2001.

3. **B.E. - Mechanical Engineering:**

Tamil Nadu College of Engineering, Coimbatore, affiliated to Bharathiyar University in 1997.

Patent

- Granted Patent on “Electrical Vehicle Trolley” By Dr. Balaji V, Dr. K Sivasakthi Balan, Dr. Madhu.B, Mr. Yogananda B.S., Mr.Vijay R, Mr.Harish Babu L, Mr.N Rajesh Kumar, Mr. V Pandiyarajan, Mr.Rajesh.V Reference Number 388521-001 on 17/06/23.
- Published a Patent on “SYSTEM AND METHOD FOR RENEWABLE ENERGY FORECASTING” by Dr. Sivasakthi Balan, Harish Babu L Reference Number 202341031911 A on 23/06/2023.
- A Design Patent on “Customized Arm Design for The Bore Well Child Rescue Robot” By Harish Babu L Reference Number E-101/18000/2019-CHE and Application Number 201941026212.
- A Design Patent on “Borewell Child Rescue Robot” By Harish Babu L Reference Number E-101/18003/2019-CHE and Application Number 201941026215.
- A Design Patent on “Method and apparatus for rescuing a child trapped in a borewell” By Harish Babu L Reference Number E-101/18002/2019-CHE and Application Number 201941026214.

International Conference

- Presented a Technical Paper “**Under heel Reference System for Autonomous Ships - Ocean Mapping**” in **1st International Conference on Maritime Autonomous Surface Ship (ICMASS 2018)**. ICMASS - 2018 was held at Busan Exhibition and Convention Center (BEXCO), Busan, the **Republic of Korea on November 8-9, 2018**.

List of Publication

- **Basalt & Zircon Hybrid Composite Material Corrosion Resistance In Acid Media** by Dr. Sivasakthi Balan and Harish Babu L on International Journal of Innovative Research in Information Security (IJIRIS)
- **Development of Automated Ground Vehicle for Medical and Commercial Application** by K.Sivasakth Balan Mr. Muthuvel, Mr. Harishbabu, Mr. Darshan, Mr. R. Vijai PROCEEDINGS BOOK OF 2rd INTERNATIONAL CONFERENCE ON PROGRESSES IN AUTOMOTIVE TECHNOLOGIES: ICPAT 2020, ISBN 978-605-9546-17-1, ICPAT’20, December 28 - 29, 2020, Istanbul – TURKEY
- ‘Design and Fabrication of Firefighting Drone For 5 Kg Payload’ by K. Sivasakthi Balan, Arunkumar MR, Muthuvel. A, Sasikala J, Darshan NK in Think India Journal Vol-22- Issue-14-Decem ber-2019, pp 10531 -10535.
- ‘Design and fabrication of Moskillance’ by Dr. Sivasakthi Balan, Ajay Kumar S, Aravind, Girish.M.C, Kishore R, Prassana vengatesh in International Journal of Engineering Research in Mechanical and civil engineering (IJERMCE) Vol 2, Issue5, May 2017, pp. 700-703.
- ‘Investigation of aerodynamic and thermal performance of gas turbine cascade’ by Arunkumar GI, P.Balachandra Shetty, Muthuvel Arumugam, and **K.Sivasakthi Balan** in the International conference on recent innovations in engineering and technology (ICRIET-2K16).
- **SivasakthiBalan**, K 2014, ‘Make Supplier as Just in Time Supplier – through a Case Study’, Applied Mathematical Sciences, vol. 8, no.43, pp. 2131 -2139.
- Murugesan, R & **SivasakthiBalan**, **K** 2012, ‘Positive Selection Based Modified Clonal Selection Algorithm for Solving Job [3] Shop Scheduling Problem’, Applied Mathematical Sciences, vol. 6, no. 46, pp. 2255-2271.

- Murugesan, R, **SivasakthiBalan, K** &Navaneetha Kumar, V 2012, ‘Clonal selection algorithm using improved initialization for solving JSSP’, Proceedings of IEEE International Conference on Communication Control and Computing Technologies (ICCCCT), pp. 470-475.
- Sudhakar, VJ, Navaneetha Kumar, V &**SivasakthiBalan, K** 2008, ‘S_N Algorithm Involving to solve the Transporation Problem’, Journal of Modern Mathematics and Statistics, vol. 2, no. 4, pp. 126-128.
- Navaneetha Kumar, V, Janaki Ramudu, P &**SivasakthiBalan, K** 2006, ‘Dynamic inventory model- a physical model’, International Review of Pure Applied Mathematics, vol. 2, no. 2, pp. 155-158.

Employment Details

Now, I am working as

- **Associate Professor** in the **Department of Mechanical Engineering**
- Heading the Sairam Business Incubator, supported by MSME
- Convenor of Ministry of Education – IIC, Sairam Bangalore
- Nodal Officer of ARIIA, Sairam Bangalore

In **Sri Sairam College of Engineering, Bangalore** – formerly known as Shirdi Sai Engineering College. (Joined in the year March-2002 and working till date).

Achievements

- Established **3 new Sri Leo Muthu Innovation Centre, Centre of excellence in Drone technology, MSME incubation Centre, MHRD innovation Cell, Maritime Technical society, Institute of Aeronautics Astronautics & Aviation Society, etc. SAE** in Sri Sairam college of Engineering around 1500 Students benefited, 12 start-ups started, 4 patents filed and 250 students from various disciplinary students are working in 23 different projects.
- As a **Convenor** supported **Sri Sairam College of Engineering IIC** for crowned with **5-star ratings** from Institution Innovation council as one of the top Institution across the Country in annual performance ratings for the year 2019-20 for the outstanding performance by Ministry of Education, India. AICTE.

- **Nodal Officer for Sri Sairam College of Engineering, Bangalore** for ranking under **EXCELLENT BAND** in the category of “**Colleges/Institutes (technical)**” during the year **2021** and Among **Top 50 Private Self-Financing Colleges in India in Atal Innovation Mission Ranking of Institutions on Innovation Achievements (ARIIA) 2020** - Ministry of Education, Govt. of India.
- My UV sterilizer project team Participated and selected as one of the finalists in the IEEE YESIST12 - Special track 2020(International Project Competition)
- Signed **MOU with Atal Incubation Centre** – Jyothy Institute of Technology Foundation (AIC-JITF), Bangalore, India.
- **My team Varuna Selected for the Singapore Autonomous Underwater Vehicle competition 2020 and Robosub 2020.**
- Presented the Research Paper “**Under heel reference System for Autonomous Ships – Ocean Mapping**” in 1st. International Conference on Maritime Autonomous Surface Ships at Busan, South Korea
- Signed **MOU with Korean Maritime Ocean University 2019.**
- Our **Singapore space challenge students Team Aditi** participated in the Singapore space challenge 2019, pitching session in Global Space and Technology Convention (GSTC) 2019, community choice award ceremony, and Synthetic Aperture Radar (SAR) Workshop in Singapore and selected for oral presentation in Global Space and Technology Convention (GSTC), St. Regis, 29 Tanglin Road, Singapore from 13th February to 15th February 2019. **Totally 40 teams participated in the Singapore space technology from all over the world. Out of these 6 teams shortlisted for the pitching session in Global Space and Technology Convention (GSTC) 2019. We are one among them.**
- Our students’ team Varuna (Autonomous Underwater Vehicle) and team Airavatha (Unmanned Ground Vehicle) teams selected for the **CHENNAI NEXT START-UP CHALLENGE 2018 - TOP 50 FINALISTS.**
- Our students’ team Varuna (Autonomous Underwater Vehicle) selected for the **CHENNAI NEXT START-UP CHALLENGE 2018 - TOP 25 FINALISTS.**
- **Started Maritime Technical Society (MTS) and IAAA society in our institution.**
- **Manava Seva's human-powered electrical vehicle team got the second position in the National level ISTE convention.**

- Our Drone team Drona selected as **one of the winners for the VG Grand Challenge in Idea Stage at Vibrant Gujarat Start-Up** and Technology Summit 2018 and received the award from the Chief Minister and Deputy Chief Minister of Gujarat.
- Our Team **Varuna's Autonomous Underwater Vehicle** has selected for **DST – Lockheed Martin – Tata Trusts India Innovation Growth Program(IIGP) 2.0** – University Challenge 2018 to **Receive a Grant of ₹.10,00,000/-**.
- Initiated **Students Mars Rover Team** during the Academic Year 2017-18 and applied for **University Rover Challenge 2018 at Utah, USA** organized by NASA. And we had cleared the Preliminary Design Round.
- Initiated Students **Autonomous Underwater Vehicle (AUV) Team Varuna**, and Participated (Selected as single private Engineering College from Karnataka) in the Students Autonomous Underwater Vehicle Competition **SAUVC 2018 Singapore event organized by the National University of Singapore in March 2018 and performed well.**
- Our Team **Supersnell had participated SAE BAJA 2018** Competition held at Pithampur, India in January 2018.
- Our students **Kiran Kumar L and Sahan** Final year, Department of Mechanical Engineering have participated in the “**ECO DRIVEATHON 2017**” *India's First Biodiesel Adventure* organized by Center for Incubation, Innovation, Research and Consultancy (CIIRC), Jyothy Institute of Technology, Tataguni, off Kanakapura Road, Bengaluru - 560 082, Karnataka from “17th February to 19th February 2017” and **secured “third position in the B10 category”**. 670 km distance coverage from Bengaluru to Sringeri and back in a stipulated time frame of 3 days.
- **Team Raider E-bike team Participated in the International Green Mobility Expo 2017** is a **3-day event** being held from **2nd February to 4th February 2017** at the **Pragati Maidan in New Delhi, India**. Confederation of Indian Industry (CII) is organizing this International Green Mobility Expo, supported by the **Ministry of Heavy Industries & Public Enterprises, Government of India, Petroleum**

Conservation Research Association (PCRA), Ministry of New and Renewable Energy.

- Our college teams Team Raiders (E-bike team), Team Mechrockz (Go-Kart Team), Team Shithij (RC Craft Team), and Team Drona (Quad Copter Team) participated and showcased their products in the Bengaluru Mini Maker Faire 2016 was conducted on 23.10.2016 Sunday from 10 AM-7 PM at Rangoli Metro Art Centre.
- **Team Mechrockz won the Best Driver award, Best endurance award, and Best autocross award with ₹. 30,000** Cash prize and secured overall 3 positions in the Vishnu Karting Championship 2017, Bhimavaram.
- **Team Sairam warrior women's go-kart team won Overall runner-up with ₹. 45,000** Cash prize and secured overall 2 positions in the Vishnu Karting Championship 2017, Bhimavaram.
- Students Convention center projects article came in **Ecoideaz.com** – a collection of eco-friendly innovations and a showcase of all eco-friendly companies based in India.
- Borewell child rescue robot, Adsorption of CO₂ using modified ZSM5 zeolite in petrol engines and fabrication of Ebike projects selected for **creating the future contest 2016 by NASA tech briefs.**
- Ravichandra T S, Nagaraja K, Mallesh, & Praveen D students Borewell child rescue robot project is registered for the Indian book of records on 19th November 2016. It will publish in the 2017 **Indian book of Records** Register edition.
- Started a new **Sri Leo Innovation Centre** in Sri Sairam College of Engineering in 2016 for doing the multidisciplinary projects and made a platform, students to work on projects for 24x7 hours for hands-on experience. It will enhance the student's research activities. Around **150 students** working in various projects like **Students Formula, Solar vehicle, Gokart, E-bike, RC craft, Quadcopter, android apps, social impact projects like borewell, women's safety devices, robot arm, wheelchair for physically challenged people, etc.**

- Leo Innovation Centre projects selected for the **Bangalore Mini maker fair 2016 on 23.10.2016 Sunday from 10 AM-7 PM at Rangoli Metro Art Centre. Students showcased their projects** at the fair on behalf of Sri Sairam College of Engineering.
- Initiated Students Autonomous Underwater Vehicle team Varuna and participated in the Students Autonomous Underwater Vehicle Competition **SAUVC 2016 Singapore event organized by the National University of Singapore in March 2016.**
- Team Varuna participated in the national level **Students Autonomous Underwater Vehicle Challenge (SAVe2016)** organized by the National Institute of Ocean Technology on 14th December 2016 and secured **5th Position all over India.**
- Initiated for RISC LPU Indo Asian Solar Championship (**4th Position All over India and runner up in endurance**) and ISIE Electric solar vehicle championship and participated in the events.
- Initiated for Vishnu karting championship, (**5th Position All over India and 2nd in Endurance and Virtual Design**), ISIE Indian Karting (**4th Position All over India Award, ISIE futuristic Team Award with Rs 40,000 cash Prize and Best Design Award**).
- Initiated for Team Mechrockz participated in **Leo motorsports championship 2016** National Level Go-Kart vehicle competition and **Won Best Engineering Design Award** with ₹.10,000 Cash Prize.
- Initiated for Vishnu Electric motorbike challenge (**Won Overall Championship, Autocross winners, Endurance winner with Rs 100000 prize money and 4th Position in Design All over India**).
- Team Raiders participated in Leo motorsports **E-Bike Lightning 2016** national level E-bike competition and **Won Best Engineering Design Award** with ₹.10,000 Cash Prize.

- **Initiated first Women's Team (Sairam Warriors) in Karnataka** for Go-Kart participated in 'Vishnu Karting championship 2017 from 27th - 30th Jan 17- A National level Go-karting Championship event held at Bhimavaram, AP and won the OVERALL RUNNER UP with ₹.45000 Prize.
- Initiated solar Team (Ashwa) and manufactured a **single Seater Solar Vehicle and A Multi Seater Vehicle** at our college campus. The team has won **the 'Go green Award', 'ISIE Future Award', 'Best Solar Performance Award'**, with ₹.1,10,000 cash Prize in the **Asia's largest solar Powered Vehicle Event "ISIE-Electric Solar Vehicle Championship 2016-17"** at AP from 28th March to 2nd April 2017.
- Our team, the **"Ashwa"** Solar Vehicle team participated & won the **"Best Solar Performance Award"** with **₹. 10,000 cash prizes out of 18 teams** in the **Ashman motors Indo Asian solar challenge 2017** from 7th to 9th April 2017 in Satna District, Madhya Pradesh'.
- Initiated a **Quad-copter Team (Shithij)** and an **RC Craft Team (Drona)** which participated in **World Robotics championship 2017** organized by Technoxian from 28th to 30th April 2017 in **Indira Gandhi Indoor Sports Complex, New Delhi.**

Contact Details

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Personal Details

Date of Birth : 28.10.1974
Interests & Hobbies : Reading, Cooking, Listening Music
Languages : English, Tamil, Kannada & Hindi
Marital Status : Married
