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Mr. Harish Babu L

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Educational Qualification:

1. Completed M.E in Engineering Design from Er. PMC Tech, Hosur during 2014
2. Completed B.E in Mechanical Engineering from Shirdi Sai Engineering College, Anekal during 2009.

Experience:

1. Worked as Lecturer in Shirdi Sai Engineering College, Anekal, Bengaluru from October 2010 to March 2015.
2. Worked as Assistant Professor in Sri Sairam College of Engineering, Anekal, Bengaluru from March 2015 to till date.

Publications:

1. Paper published on “Optimization of Double Wishbone Suspension System” in the National conference on computing, communication and manufacturing on 12th march 2014 at Perumal college of engineering Hosur.
2. Paper published on “Optimization of Double Wishbone Suspension System” in the National Level Technical symposium MECHTECH-2014” organised by mechanical department during 3rd April 2014.
3. Paper published on “Design and Fabrication of Potato Planting Machine” in the National Level Technical symposium MECHTECH-2014” organised by mechanical department during 3rd April 2014.
4. Paper published on “Structural Analysis of Flow Over the Varuna Autonomous Under Water Vehicle” in National Conference on futuristic trends in Power Integration and Computing Techniques organized by Sri

Sairam College of Engineering on 7th Nov 2015

5. Paper published on “Design, Fabrication and Testing of Sisal fiber filled LAPOX L-12 Epoxy Resin composites” in “IFERP” 2nd International conference on applied science engineering and technology (I7C-2016) held at Sri Sairam College of engineering during 10th-11th October 2016.
6. Paper published on “Design, Fabrication of solenoid gear changer” in “IFERP” 2nd International conference on applied science engineering and technology (ICASET-2017) held at Sri Sairam College of engineering during 18TH-19TH May 2017.
7. Paper published on “Design, Fabrication of Intelligent Wheel Chair” in “IFERP” 2nd International conference on applied science engineering and technology (ICASET-2017) held at Sri Sairam College of engineering during 18TH-19TH May 2017.
8. Paper published on “Different modes of steering” in “IFERP” 3rd International conference on applied science engineering and technology (ICASET-2018) held at Sri Sairam College of engineering during 17TH-18TH May 2018.
9. Paper published on “Impact analysis of a Go-kart” in “IFERP” 3rd International conference on applied science engineering and technology (ICASET-2018) held at Sri Sairam College of engineering during 17TH-18TH May 2018.
10. Paper published on “AI6061- Basalt & Zircon Hybrid Composite Material Corrosion Resistance in Acid Media” in International Conference on recent Trends in Computing & Communication Technologies (ICRCCT -2023) held at Sri Sairam College of Engineering during 23rd -24th June 2023

Patent Filed:

1. A Design Patent Granted for “**Electric Vehicle Trolley**” -**Design No- 388521-001**
2. Patent published on “**System and method for renewable energy and forecasting**” - **application No – 202341031911A- Published date- 23/06/2023**
3. A 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.
4. A Patent on “**Borewell Child Rescue Robot**” By Harish Babu L Reference Number E-101/18003/2019-CHE and Application Number 201941026215.
5. A 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

Workshops / Seminars / FDP attended:

1. Attended FDP on Fusion 360 organized by VTU during November 2023
2. Undergone Advanced Level training as Innovation Ambassador under IIC, MoE 2021
3. Attended on FDP on “An Overview of Teaching Techniques in Innovation & Design Thinking” on 6th to 10th December 2021 Organized by VTU Human Resource Development Centre (VTU - HRDC)
4. Attended 6 Days FDP on Product Design Engineering using Fusion 360 from 19th-24th April 2021
5. Attended 5 Days FDP on Electrical Vehicles organized by Hindustan University under ATAL from 2-11-2020 to 6-11-2020.
6. Attended 5 days FDP on Solid edge Software organized by ICT Academy from 14th Dec to 18th Dec 2020.
7. Attended 5 days FDP on Creative Thinking organized by ICT Academy from 14th Sept to 18th Sept 2020.
8. Participated in 4 days FDP program on outcome-based education and road map for accreditation 18th to 21st January 2017 organized by Sri Sairam college of Engineering.
9. Participated in 3 days FDP program titled FACTO 2K17 (funding, Authoring, Counseling, TQM and opportunities in Entrepreneurship) from 2nd to 4th August 2017 organized by Sri Sairam college of Engineering.
10. Participated in 3 days Faculty Development Program titled “Innovative teaching Pedagogy and student Management” organized by Sri Sairam college of engineering from 14th to 18th July 2016.
11. Participated in 4 days FDP program on “IPR, stress management and effective counselling techniques from 1st to 5th January 2015 organized by IEDC in association with S and H department in Sri Sairam college of Engineering.
12. Participated in 5 days Faculty Skill Enrichment Programme from 20th to 24th January 2014 organized by Sri Sairam college of Engineering.
13. Attended the training on ISO 9001:2008 on Quality management system and Audit Training during 29th August 2015 organized by creative management consultants, Chennai.
14. Attended TECHNOSIA two days’ workshop on “Robotics Workshop” held at Shirdi Sai Engineering College organized by Park lab in association with techniche 21st -22nd Feb 2014.

Awards or Recognition:

1. BEST RESEARCHER AWARD-2023 by Knowledge Research Academy, Coimbatore
2. Received funds of Rs. 2,25,000/- under Mentore Mentor Scheme by MIC & AICTE during academic year 2021-22.
3. Received funds of Rs. 2,25,000/- under Mentore Mentor Scheme by MIC & AICTE during academic year 2022-3.
4. Rs. 3,00,000/- for organizing workshop on “Design and Fabrication of Go-kart vehicle for women” sponsored by VTU TEQIP Cell.
5. Rs. 3,00,000/- from VGST for project titled “Corrosion & Tribological study of Natural Particulate Filled Aluminum Hybrid Metal Matrix”
6. Rs. 1,00,000 /- from IEDC for project titled “Bore well child rescue robot”.
7. Rs. 5,00,000 /- from IIM Bangalore for developing product through IICDC 2018 organized by TEXAS instruments for Borewell Child Rescue Robot.
8. Won Kerala Government Engineering Design National Award 2018 for engineering degree students for the project Manav Esha Yanak (Single seated hybrid solar Cars).
9. IIC Co-ordinator – Achieved 4 Star (maximum Star) Rating during 2020-21, 2021-22, 2022-23.
10. NITTTR – Mod 5 & 7 Completed
11. Faculty Mentor for Project title “Rescure Buoy” – won second place in Global university Start up challenge organized by TiE Bangalore with 30,000/- Cash prize
12. Faculty Mentor for Project title “RoV for Cage Fishing” – won special place in Global university Start up challenge organized by TiE Bangalore
13. Faculty advisor for project tittle Medical Robo (AGV) which won first place in Anveshana 2020 organized by Agastya Foundations with a cash prize of Rs. 30,000/-
14. Faculty advisor for Team Mechrockz2.0 Women Go-kart team which participated in, Indian Pro- karting Championship 2019, won Best women Empowerment Award and Best Design Poster Award
15. Borewell child rescue robot project team has received Young Innovator Award 2018 from ICT academy.
16. Borewell Child Rescue Robot project selected for the top 50 Start-up Teams of Chennai Next Start-up Challenge 2018. (50 Lakhs seed fund for the top 10 start-up teams)
17. Faculty advisor for Team SUPERSCHNELL (Formula-1 Team) which participated in virtual round of SAE STUDENTS’ FORMULA Event SUPRA in 2014 and got 106th position out of 250 teams from all over India
18. Faculty advisor for Team SUPERSCHNELL (BAJA Team) which showed drastic improvement in the design event. Out of 388 colleges teams our team secured overall 126th Position with 156.1 points out of 200 points

and 12th Position in Karnataka. In the new entry category team scored overall 34th Position and 4th Position in the Karnataka. Team participated in the Main BAJA 1 – Pithampur 2018.

19. Faculty advisor for Borewell Rescue robot project which won ISTE best project award in 2017.
20. Faculty advisor for Team Mechrockz Mens Go-kart team which participated in, Vishnu karting championship 16, (5th Position All over India and 2nd in Endurance and Virtual Design).
21. Faculty advisor for Team Mechrockz Mens Go-kart team which participated in ISIE Indian Karting (4th Position All over India Award, ISIE futuristic Team Award with Rs 40,000 cash Prize and Best Design Award).
22. Faculty advisor for Team Mechrockz Mens Go-kart team which participated in Leo motorsports championship 2016(won Best Engineering Design Award with 10, 000 cash prize).
23. Faculty advisor for Team Mechrockz Mens Go-kart team which participated in Vishnu karting championship 17(won Best driver, Autocross and skid pad Award with Rs. 30,000 cash prize).
24. Faculty advisor for Team Mechrockz Mens Go-kart team which participated in Sieger Karting Championship 2017(Got second place in Endurance, auto cross and overall, third position).
25. Faculty advisor for Team Mechrockz Mens Go-kart team which participated in Sieger Karting Championship 2018 (Got first team to clear the technical inspection award with 5,000 Rs Cash prize).
26. Faculty advisor for Team Sairam Warriors Women’s Go-kart team won overall runners with Rs. 30, 000 cash prize in Vishnu karting championship 17.
27. Delivered Session on Innovation & Design Thinking in East West College of Engineering
28. Delivered Session on IIC activities and review process for RYMCE & EWIT under IIC

Projects Handled:

1. Borewell Child Rescue Robot
2. Design and fabrication of multi steering mechanism
3. Design and fabrication of POD (Hybrid vehicle consists of pedalling and Battery powered driving mechanism)
4. Design and Fabrication of GOKART, BAJA, SUPRA (Student Formula 1) for respective events.
5. Autonomous Ground Vehicle
6. E- Bicar
7. Design and fabrication of Trike
8. Smart Surface Vehicle
9. Design & Fabrication of ATV
10. Design & Fabrication of Buoy
11. Solar Operated Wheel Chair
12. Potato Planting Machine
13. Fabrication of Human Powered Material Handling System
14. Design and Analysis of whirling of shaft

15. Self-Propelled Agri-misters

16. Design & fabrication of Manav Esha Yank (Velomobile)