

RESUME

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Career Objective: Aim to be associated with progressive organization that gives me the scope to update my knowledge and skills in accordance with the latest trends and be a part of the achieving team.

Qualification:

- ME (Instrumentation & Control) from Vivekanand Education Society's Institute of Technology, -Chembur, University of Mumbai. (66.05%)

Work Experience:

Total Experience: 13 Years

Institute Name	From	To	Designation
K.J. Somaiya Institute of Engineering & Technology Sion, Mumbai	10/05/2012	Till date	Assistant Professor
K.J. Somaiya Institute of Engineering & Technology Sion, Mumbai	30/7/2010	09/05/2012	Lecturer
MGM'S College of Engineering & Technology, Navi Mumbai	16/07/2008	15/04/2009	Lecturer
Jawaharlal Nehru Engineering College Aurangabad	28/07/2004	12/07/2008	Lecturer
Vidya Pratishthan's School of Biotechnology, Baramati, PUNE	10/12/2003	25/04/2004	Lecturer

Educational Details:

Sr. No.	Qualification	Year	School/College	University	% Marks	Class
1	M.E. (Instrumentation & Control)	2011	V.E.S.I.T Mumbai	University of Mumbai	66.05%	First class
2	BE (Instrumentation)	2001	G.C.E. Dhule	NMU	66.53 %	First class with distinction
3	H.S.C	1997	S.P. College, Pune	PUNE	76.33 %	Distinction
4	S.S.C	1995	S.M.V.M, Pune	PUNE	91.14 %	Distinction 26 th Rank SSC Board Pune

PG Recognition:

University	Degree/Course	University Approval Date and No	Approval Valid from
University of Mumbai	ME Electronics Engineering	No. PG/I.C.D./2016-17/2091	7 th September 2016

Papers/Conferences/Patent:

Patent:

- Sarika Mane et.al completed the patent filing for the invention entitled "Method and system for providing instructions of an operating electronic machine in preferred language", Application No. 20172044240A, At the Indian Patent Govt. office, dated 8th December 2017.

Paper published:

2. Sarika Mane Krunal Kasar, Raj Vadariya, Kiran Sapkale, published a paper titled as “Urban farming using artificial light”, in *International Journal of Computational Intelligence Research (IJCIR)* is a peer reviewed international journal, *Special Issues*, Volume 14, Number 1 spl. (2018) Online ISSN: 0974-1259
3. Sarika Mane, Shaila Jadhav, Sneha Bobade, Priyanka Mali, Chirag Rathod, presented a paper titled as “Smart car parking system using firebird v”, in *Advances in Computational Sciences and Technology (ACST)* an international research journal, *Special Issues*, Volume 11, No.1 (2018), Online ISSN 0974-4738
4. Presented paper along with students “Restaurant Assistant Robot”, in International conference , ISBN:978-93-86171-02-3 (7,8/04/2017)
5. Published a paper titled as “An ILC –PID Control Scheme for SISO” in *International Journal of Engineering Research & Applications(IJERA)*

Paper presented:

1. Sarika Mane Krunal Kasar, Raj Vadariya, Kiran Sapkale, presented a paper titled as “Urban farming using artificial light”, 1st International Conference on Advances in Science and Technology (ICAST-2018 held at K J Somaiya Institute of Engineering and Information Technology, Sion, Mumbai, Maharashtra.(6th and 7th April 2018)
2. Sarika Mane, Shaila Jadhav, Sneha Bobade, Priyanka Mali, Chirag Rathod, presented a paper titled as “Smart car parking system using firebird v”, 1st International Conference on Advances in Science and Technology (ICAST-2018 held at K J Somaiya Institute of Engineering and Information Technology, Sion, Mumbai, Maharashtra.(6th and 7th April 2018)
3. Presented paper along with students “Restaurant Assistant Robot”, International conference , ISBN:978-93-86171-02-3 (7,8/04/2017)
4. Presented a paper titled as “An ILC –PID Control Scheme for SISO”, in National Conference on Emerging trends in Engineering & Technology held at Vidyavardhini’s College of Engineering & Technology, Vasai on 30th March 2012.
5. Presented a research paper, “Implementation of PID control using ILC base approach for SISO system”, at the international conference on instrumentation ICI-2009 held during 21st-23rd January 2010.
6. Presented a case study on ‘Enhancing Teaching Techniques’ at international level i.e International Exposition on Team Excellence (ITEX) 2008 at Singapore (8-14 June 2008.)
7. Presented a case study on ‘Enhancing Teaching Techniques’ in national convention on quality circles at Kolkata (27-30 Dec 2007)

Achievements:

1. As e-Yantra team member Completed the Task Based Training (TBT-2016) conducted by IIT Bombay during (11/02/2016-16/06/2016) and college team became eligible for class B award with completion certificate.
2. Got the recognition by K.J. Somaiya Institute of Applied Agriculture Research for the project “Growth Room Monitoring and Control for Tissue Culture Lab”, Sameerwadi Karnataka (Feb.2016)
3. ‘Distinguished Award’- For Case Study on ‘Enhancing Teaching Techniques’, in National Convention of Quality Circle forum of India- Kolkata Chapter.(26-30 Dec.2007)
4. ‘Excellent Award’- For Case Study on ‘Enhancing Teaching Techniques’, 7th Quality Circle forum of India- Aurangabad Chapter convention. (4th Aug.2007)
5. ‘Best Student Award’ In 1995

Awards and Recognitions:

1. Received the appreciation certificate for co-coordinating the FDP : “Machine Learning for Audio, Image, Video Analysis & IoT” (9-14/12/2019)
2. Received the letter of appreciation for being a member of Oscillations 2K19 (AY 2018-19)
3. Received the letter of appreciation for extension activities. (AY 2017-18)
4. Received the letter of appreciation for best performance in Teaching Learning. (AY 2017-18)
5. Received the letter of appreciation for the subject Advanced Instrumentation System. (AY 2017-18)
6. Received the letter of appreciation for being a member of Oscillations 2K18 (AY 2017-18)
7. Received the letter of appreciation for Robotic Training conduction at English Medium School & Kannada Medium School, Sameerwadi, Karnataka (AY 2016-17)
8. Received the letter of appreciation for Robotic Training conduction Karmaveer Bhaurao Patil Vidyalaya, Sion Mumbai 400022(AY 2016-17)
9. Received the letter of appreciation for the one day awareness drive on “Enter into the world of Engineering

Education” (AY 2016-17)

10. Received the letter of appreciation for outstanding result of the subject Advanced Instrumentation System and Mems Technology Subject. (AY 2016-17)
11. Received the letter of appreciation for the projects at K.J. Somaiya Institute of Applied Agriculture Research, at Sameerwadi Karnataka (AY 2015-16)
12. Received the letter of appreciation for the subject Embedded System Design. (AY 2015-16)
13. Received the certificate of appreciation for mentoring the projects submitted to Texas Instruments Innovation Challenge Indian Design Contest 2015.
14. Received the letter of appreciation for the contribution in organizing Faculty Updation Program on “Embedded System Design using Cortex M3” by C-DAC Hyderabad (AY 2014-15)
15. Received the letter of appreciation for the subject Embedded Systems (Computer). (AY 2013-14)

NPTEL Courses:

1. Completed the NPTEL course on-“Introduction to Internet of Things” Elite Category with 71% (2018-19-Odd Semester)
2. Completed the NPTEL course on-“Roadmap of Patent Creation” Elite Category with 68% (2018-19-Even Semester)
3. Completed the NPTEL course on-“Introduction to Industry 4.0 and Industrial Internet of Things” Elite+ Silver Category with 75 % (2018-19-Even Semester)
4. Completed the NPTEL course on-“Introduction to Machine Learning ” Elite category with 65% (2019-20-Odd Semester)
5. Completed the NPTEL course on-“ Practical Machine Learning with Tensor Flow” with 49% (2019-20-Odd Semester)
6. Completed the NPTEL course on-“Data Science for Engineers ” with 49% (2019-20-Odd Semester)

Projects for industry:

1. Growth Room Monitoring and Control for Tissue Culture Lab, - K.J. Somaiya Institute of Applied Agriculture Research Sameerwadi ,Karnataka
2. Media preparation room’s autoclave controller for tissue culture laboratory, K.J. Somaiya Institute of Applied Agriculture Research Sameerwadi ,Karnataka
3. Street light controller for Godavari Biorefineries Ltd., Sameerwadi ,Karnataka
4. Three phase motor on-off control for water lifting using mobile phone, Godavari Biorefineries Ltd., Sameerwadi ,Karnataka

Need Based projects:

Guided **04** ETRX (AY 2018-19)

1. Automatic Line Following Robot
2. Smart Industrial Process Monitoring and Control System
3. Noise Monitoring & Alerting System for Library Reading Room
4. RFID based library usage data logger
5. “IoT based Low Cost Solution for Laboratory Automation” for department Laboratories. (Aug2017-Nov2017)
6. Completed the project titled,-“Office automation using mobile app” for Institute Office (Aug2017-Nov2017)

BE Projects Guided:

Guidance to 20+ undergraduate projects (BE) on different topics till date.

Courses Taught:

Embedded System Design, Advanced Instrumentation Systems, Electrical Networks Analysis and Synthesis, Circuit Theory, Microprocessor & Peripherals, Microcontrollers, Distributed Control System etc.

Industrial Training/Visits:

1. Attended Industrial Visit at Festo Pvt. Ltd, Mumbai (13/06/2019)
2. Attended Industrial Visit at Reliance Jio Digital, Navi Mumbai (19/02/2019)
3. Industrial visit to Sameerwadi for project work (17, 18/04/2017)
4. Done the industrial training on, “*Industrial Automation, Basics of Siemens PLCs*”, conducted at Fox Controls Pvt. Ltd., Nashik during 1st -6th July, 2007.
5. Completed a one month training program covering, “*PLC (Allen Bradley, Simens S7-300)*”, at Krish Infotech , Aurangabad during 15th May-15th June 2007.

Attended Workshops/STTP/STC:

1. Organized Training : LEVEL-1, QUAD-COPTER, and PROJECT DESIGN for VI,VII & VIII standards respectively at The Somaiya School (13/02/2020)
2. Attended the STTP on “Internet of Things” at Datta Meghe College of Engineering, Navi Mumbai (2-8/1/2020)
3. Attended the, “ Industry 4.0 Summit”, at IIT Bombay (4/1/2020)
4. Attended the FDP : “Machine Learning for Audio, Image, Video Analysis & IoT” (9-14/12/2019)
5. Attended a one Day workshop on “Co-operative Learning ,Flipped Classroom” at KJSIEIT (14/10/2019)
6. Attended ISTE approved one week STTP on "Artificial Intelligence, Machine & Deep Learning: Hands On" at K. J. Somaiya Institute of Engineering & Information Technology, Sion (24-29/06/2019)
7. Attended AICTE-ISTE approved one week STTP on "Industrial IoT System Design from Sensing to Mitigation" at K. J. Somaiya College of Engineering, Vidyavihar (10-14/06/2019)
8. Attended National Symposium by e-Yantra IIT, Bombay, Prof. Kavi Arya, Principal Investigator, e-Yantra project IIT, Bombay(5-6/4/2019)
9. Attended a three day workshop on “Advanced Topics in Embedded Systems and Robotics(Python & IoT), held at IIT-Bombay.(7-9/02/2019)
10. Attended the orientation for the subject Embedded Systems & Real Time Operating System, Semester VI at Fr. Conceicao Rodrigues College of Engineering, Department of Electronics Engineering, Bandra (W), Mumbai(17/01/2019)
11. Attended FDP workshop on "Team Building Through Emotional Intelligence” at K. J. Somaiya Institute of Engineering and IT, Sion, Mumbai (04/01/2019)
12. Attended one week Faculty Development Programme on–“ Artificial Intelligence and Machine Learning” (24-29/12/2018)
13. Attended the two day workshop on –“Open Data Science” at IIT Bombay (15-16/12/2018)
14. Attended a webinar on “ Build a career in IoT”, jigsaw academy, Bangalore (14/07/2018)
15. Attended ISTE approved 06 days faculty Development Program on "Cyber Security in IoT Applications" in association with The Institution of Engineering & Technology (IET), Mumbai LN at K. J. Somaiya Institute of Engineering & Information Technology, Sion (2nd July to 7th July 2018)
16. Attended ISTE approved 06 days faculty Development Program on "Cyber Security in IoT Applications" in association with The Institution of Engineering & Technology (IET), Mumbai LN at K. J. Somaiya Institute of Engineering & Information Technology, Sion (2nd July to 7th July 2018)
17. Attended one week workshop under Texas University program on "IOT and Advances in Embedded Systems" at Department of Electronics and Telecommunication Engineering, K. J. Somaiya College of Engineering, Vidyavihar June 25 – 29, 2018
18. Attended A Public Lecture by a distinguished academician and Institution builder -Prof. M.S. Valiathan, “ Training of physicians :A processin Evaluation”,(21/03/2018)
19. Attended National Symposium (eYS-2018) by e-Yantra IIT,bombay, Prof. Kavi Arya, Principal Investigator, e-Yantra project IIT, Bombay(23-24March2018)
20. Attended National Symposium (eYS-2017) by e-Yantra IIT,bombay, Prof. Kavi Arya, Principal Investigator, e-Yantra project IIT, Bombay(7,8-04-2017)
21. Conducted Training : First Level & second Level Robotics for VI,VII & VIII standards at Sameerwadi for VI,VII & VIII standards students English Medium School & Kannada Medium School, Sameerwadi (17, 18/04/2017)
22. Attended a Lecture talk on Image processing & Computer vision with matlab .Speaker Dr.Amod Anand Kumar (16/7/2016)
23. Attended a expert Talk on “ Research Methodology”, by DR. Uday Khedkar,IIT Bombay
24. Attended one week training cum Workshop on , “ *NACC-Process Criteria and Audit*”, organized by IQAC of KJSIEIT during 25/04/2016-29/04/2016
25. Attended University of Mumbai approved Faculty Development Program on, “*IoT: Applications and Developments*”, organized by KJSIEIT with the Institution of Engineering and Technology(IET), Mumbai LN during 02/05/2016-07/05/2016

26. As e-Yantra team member Completed the “Task Based Training (TBT-2016)”, conducted by IIT Bombay during (11/02/2016-16/06/2016) and college team became eligible for class B award with 4000 rupees cash prize and completion certificate.
27. Attended one day training program on “RTOs programming” on 17/07/2015 at Datta Meghe College of Engineering, Airoli ,Navi Mumbai
28. Attended e-SIM faculty Meet at IIT Bombay on 22/08/2015
29. Industrial visit to Sameerwadi, deployed project titled, “Growth Room Monitoring & Control for Tissue Culture Lab”, and identified 03 new projects during(10/09/2015-12/09/2015)
30. Attended a 2 day national workshop on, “MEMs and Microsystems”, organized by MIT Pune and Pune chapter of Institute of Smart Structures and Systems (ISSS) during 12/02/2016-13/02/2016
31. Participated in 2 day workshop on , “Introduction to Robotics”, at IIT Bombay during 19/02/2016-20/02/2016
32. Attended a one day workshop, “NPTEL Awareness Workshop”, organized by NPTEL-KJSIEIT. 08/01/2018)
33. Attended faculty orientation program for the subject, “ Embedded System Design”, organized by UoM held at A.C.Patil College of engineering , Navi Mumbai(15/07/2015)
34. Attended five day STTP on “Mathematical Modeling & Applications in technology” organized by K.J. Somaiya Institute of Engineering &Information Technology, in association with ISTE(Faculty Chapter) from 11th May 2015 to 15th May 2015.
35. Attended a Faculty Updation Program on “ Embedded System Design using ARM Cortex M3”, organized by C-DAC Hydrabad as a part of project capacity building in the areas of Electronic Product Design and Production technology, conducted at KJSIEIT, Mumbai (29/12/2014-02/01/2015)
36. Attended University of Mumbai approved one week STTP on “Cloud Computing & Big Data Analytics” organized by K.J. Somaiya Institute of Engineering &Information Technology, Sion from 10th Nov 2014 to 14th Nov 2014.
37. Attended AICTE sponsored one week QIP Short Term Course on “Embedded Control Systems” conducted by IIT Bombay at Mumbai during 12th -16th May 2014
38. Attended two day workshop on “Embedded Systems” conducted jointly by e-Prayog, Virtual Labs (Electronics), IIT Bombay and Sardar Patel Institute of Technology, Andheri (W) on 1st & 2nd March, 2014.
39. Attended AICTE sponsored National level STTP on “VLSI and Embedded Systems” organized by Fr. C. R. Institute Technology, Vashi during 1st July 2013 – 5th July 2013.
40. Attended one day workshop on Embedded Systems “Do it yourself” organized by Sardar Patel Institute of Technology, Andheri (W) on 25th February 2013.
41. Attended ISTE approved one week workshop on “Research Methodology & Related Open Source Tools” organized by K.J. Somaiya Institute of Engineering &Information Technology, Sion during 17th- 21st December, 2012.
42. Attended five day STTP on “NS2: A Helicopter View” organized by K.J. Somaiya Institute of Engineering &Information Technology, Sion during 5th -9th November 2012.
43. Attended two day workshop on “Speech Processing Techniques”, organized by K.J. Somaiya Institute of Engineering & Information Technology, Sion on 6th & 7th January 2012.
44. Attended Short Term Training program on “VLSI: Basics through Advanced & Recent Trends”, organized by K.J. Somaiya Institute of Engineering &Information Technology, Sion during 10th -14thJanuary 2011.
45. Participated in the orientation course on “Embedded System & Real Time Programming”, organized by Shah & Anchor Kutchhi Engineering College, Chembur, on 5th January 2011.
46. Participated in the three day workshop on “Embedded System Design on MSP430”, organized by Jawaharlal Nehru Engineering College, Aurangabad, on 23rd-25th February 2007.
47. Attended Short Term training workshop covering, “Intouch SCADA software, Allen Bradely SLC-500 PLC, Simens S7-300 PLC”, organized by Prolific Systems & Technologies Pvt. Ltd.

Organized Expert Talk/ Lectures/Workshops/Events:

1. Organized a Visit to attend the Regional Finals of eYantra’s eYIC projects exhibitions for SE Electronics students. (27/02/2020)
2. Organized an “Industrial Visit to Capgemini Technology Services, India Limited”, for BE Electronics students. (24/02/2020)
3. Organized a lecture Talk on “Importance of Technical Workshops for Career Growth”, for SE Electronics students. (18/01/2020)
4. Organized a Workshop on “Arduino Boards & I/O devices Interfacing” for SE Electronics

- students. (18/01/2020)
5. Organized a lecture Talk on “Role of Mechatronics in Industry 4.0 “for Class: SE/TE/BE (ETRX) /SE (EXTC),students. (26/07/2019).
 6. Organized a lecture Talk on “Opportunities for Electronics Engineers in Startups” for TE Electronics students. (12/3/2019)
 7. Organized a lecture Talk on “Guidance regarding off-campus job search” for TE Electronics students. (11/2/2019)
 8. Organized a lecture Talk on "Awareness on Real Time Embedded Systems Projects” for TE Electronics students. (17/01/2019)
 9. Organized a lecture Talk on "Opportunities of Electronics Engineers in IoT" for SE & BE Electronics students. (21/08/2018) Speaker: Mr. Niket Raut, Senior Technical Architect, Capgemini
 10. Organized a Workshop on "Arduino Boards & I/O devices Interfacing” for SE Electronics students. (21/07/2018)
 11. Organized a lecture Talk on "IoT& Arduino Boards I/O Interfacing, Project Development" for SE Electronics students. (16/07/2018)
 12. Arranged visit under e-Yantra National Level Project Exhibition for SE & TE students (24-03-2017)
 13. Conducted “e-Yantra workshop” for TE ETRX students(17/02/2018)
 14. Organized a lecture Talk on “Professional Ethical Behaviour” (12-03-2018)
 15. Organized a lecture Talk on “Career Opportunities in Electronics through T-solve Training” (24/01/2018)
 16. Organized a lecture Talk on “Awareness on Arduino Boards & Its I/O Interfacing”,(02-02-2018)
 17. Organized a lecture Workshop on “IoT & Project Development”,(20-01-2018)
 18. Organized one day workshop on “Arduinio Boards & It’s Programming for SE students(5/08/2017)
 19. Organized Expert Talk on “Industrial PLC –SCADA Based Project Guidance” for BE students. (24/7/2017). * 01project group received the internship.
 20. Organized Lecture Talk on “Preparation Guidance for TOFEL/GRE Examination” for BE students (17/7/2017)
 21. Organized Lecture Talk on “ Awareness on Live Industrial Projects” for SE students (17/7/2017)
 22. Conducted Training : First Level & second Level Robotics for VI,VII & VIII standards at Sameerwadi for VI,VII & VIII standards students English Medium School & Kannada Medium School, Sameerwadi (17, 18/04/2017)
 23. Conducted Training : First Level & second Level Robotics for VI,VII & VIII standards at Karmaveer Bhaurao Patil Vidyalaya, Sion Mumbai 400022 for VI,VII & VIII standards students.(28, 29-02-2017)
 24. Conducted “e-Yantra Awareness Activity” for TE &BE ETRX students(10/4/2017)
 25. Organized Lecture Talk on, “Career Guidance” for TE Electronics Students. Speakers Mr. Avinash Chauhan, Dibolt Mumbai, Nitesh Hegade, Accenture(31/03/2017)
 26. Conducted “e-Yantra workshop” for BE ETRX students(09/02/2017)
 27. Organized Lecture Talk on, “Career opportunities for Electronics Students in IT Industry” for TE and BE Electronics Students. Speaker Mr. Soumen Das Innova Solutions Mr. Soham Donwalkar Application Development Analyst, Accenture Solutions Pvt. Ltd. (08/02/2017)
 28. Organized Lecture Talk on, “Placement Preparation for IT Industry”for SE Electronics Students. speaker Mr. Sagar Shirishkumar Alande, Accenture (07/02/2017)
 29. Organized one day workshop on “Mobile App Development & Getting Start with IoT Using Open Source Cloud Platform” for SE Electronics Students (28/01/2017)
 30. Organized a lecture talk for SE students on, “Career Guidance”, by Rohan Pai from SIMSER on 02/02/2016
 31. Organized a lecture talk for BE students on, “ Introduction to MEMs & Career opportunities in core electronics field”, by Gaurav Valecha on 12/08/2015

Other co-curricular Activities:

1. Project Guidance to need based projects
2. Worked for Zee 24 Taas Young Innovator Awards 2017-2018 project submissions.
3. Worked in registration committee of 1st International Conference on Advances in Science and Technology (ICAST-2018 held at K J Somaiya Institute of Engineering and Information Technology, Sion, Mumbai, Maharashtra.(6th and 7th April 2018)

4. Completed the project titled,-“Office automation using mobile app” for Institute Office (Aug2017-Nov2017)
5. Submitted minor research project proposal to University.
6. Submitted one week proposal-“Research- challenges, perception and the way forward” to ISTE Delhi.
7. For UoM did the work as **Paper Setter** for 04 Subjects ENAS, ESD, CT and AIS
8. Represented as one of the member for DRDO Collaboration Projects. (A team of faculty members led by Dr. Becky M Thomas, Director, Research,Somaiya Vidyadhar, Mumbai visited DIPAS on 28.6.2017 for interaction and discussion)regarding various products developed by DIPAS, DIHAR and DIBER, DRDO.
9. Participated in Nakshtra Event -Kavita Vachan
10. Did the work for one day drive activity at college level
11. Mentor for the project – Texas Instruments Innovation Challenge, India Design Context 2015

Contribution in the Department/College:

- Electronics Department- Alumni coordinator
- Electronics Department- ISTE coordinator
- Electronics Department- Result Analysis In charge
- Software Development Cell- Team Member, deployed 04 projects.
- Robotic Cell – Team Member

Computer skills:

- Languages: VB
- Software: Matlab 6.5, 7.1, Versa-pro (PLC), Crossware, Labview

Life Membership of Technical Bodies:

- Instruments Society of India-Membership Number 1502
- The Indian Society for Technical Education- Life Membership-122365
- IEEE Student Membership: 96084468

Personal Details:

Age: 40Yrs.

Marital Status: Married.

Languages Known: English, Hindi, and Marathi

Self-Appraisal:

- Analytical and Interpersonal skills.
- Flexible to Different kinds of work environment & able to work under pressures.
- Ability to respond quickly to the growing and dynamic needs through creative and innovative approaches.

I do hereby solemnly affirm that the above-mentioned statements are true to the best of my knowledge and belief.

Date:

Place:

Sarika Yuvraj Mane.