

Curriculum Vitae

Name: Suhas Subhash Chate

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Date of Birth: 28th August, 1988



Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	CGPA	Class
M. Tech.	Signal Processing	College of Engineering,Pune	Savitribai Phule Pune University	2012	9.46	<i>First Class Topper</i>
B.E.	Electronics and Tele communication	Government Engineering College, Aurangabad	Dr.Babasaheb Ambedkar Marathwada University	2010	9.67	<i>First Class Topper</i>

M. Tech. Project:

Palm based person verification system

In this project a system was developed using openCV for palm verification. The system used palm geometry and palm print as features. A database for 300 people was made for testing the system. The system performance parameters such as FAR and GAR were also measured.

Key Research Areas:

- Robotics
- Biometrics
- Engineering Education

Experience

Sr. No.	Organization	Post	From To	No. of Years
1	Bhabha Atomic Research Centre, Mumbai	DGFS-Ph.D Fellow	August 2012 to July 2013	1
2	College of Engineering Pune	Junior Research Fellow	August 2011 to June 2012	1

List of Courses Taught/Teaching at UG level

- Engineering Exploration
- Basic Electronics
- Basic Electrical Engineering
- Computer Network and Security
- Data Communication and Computer Networks
- Digital Image Processing
- Digital electronics and Microprocessors

List of Courses Taught/Teaching at PG level

- Automotive Embedded Systems

Additional Assignments/Duties

- Worked as Robotics Club In charge of the institute
- Worked as faculty coordinator for the course engineering exploration
- Module coordinator, NAAC and NBA criteria coordinator for the department
- Center In charge at Center for Engineering Exploration

Membership of Professional Bodies

Member, The Institution of Engineering and Technology (UK)

Member, Indian Society for Technical Education (India)

Research Projects/Projects Guided

Successfully guided more than 100 projects at undergraduate level spanning from first year to final year. The projects were of multidisciplinary nature involving sensors, embedded platforms, image processing and mechanical aspects.

Computer/Software Proficiency

MATLAB

C programming

Arduino IDE

Eagle PCB designing

Solid Edge for 3D designing

Ultimaker Cura for 3D printing

Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference Attended

“One week STTP on Robotics and Automation”, P.E.S. College of Engineering, Aurangabad, 15th to 19th June,2015.

“ Two day workshop on E yantra” CSMSS CHH. Shahu College of Engineering, Aurangabad 19th -20th February, 2016.

“One day Workshop on IoT” IoT Summit 2016, BVB College of Engineering and Technology, KLE Technological University, Hubali 12th - 13th November, 2016.

“Conference on IoT”, IoT Summit 2016, BVB College of Engineering and Technology, KLE Technological University, Hubali 12th - 13th November, 2016.

Smart Mobility Conference 2018” , NASSCOM, EC Mobility, CMIA, Hotel Rama International, Aurangabad, 19th - 20th March, 2018.

“One Week Faculty Development Program on Engineering Exploration”, KLE Technological University, Hubali, 14th - 18th May,2018 .

Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference organized

“Workshop on wireless sensors and raspberry pi”, Maharashtra Institute of Technology, Aurangabad , 4th- 6th October, 2013.

“Two days National level Workshop on Research Methodology”, Maharashtra Institute of Technology, Aurangabad, 13th -14th March, 2015.

“ Four days National level Workshop on MATLAB, Simulink and Low Cost Design using Signal and Image Processing Toolbox”, Maharashtra Institute of Technology, Aurangabad, 16th -19th December,2015.

“MITRA Robotics Workshop”, Maharashtra Institute of Technology, Aurangabad, 2nd - 9th May,2016.

“MITRA Robotics Workshop”, Maharashtra Institute of Technology, Aurangabad, 17th - 19th February, 2017.

“International Conference on Digital Signal and Image Processing”, Maharashtra Institute of Technology, Aurangabad, 7th - 8th March, 2017.

“Applied Electromagnetic Conference -2017”, IEEE Kolkata Section, Maharashtra Institute of Technology, Aurangabad, 19th -22nd December, 2017.

“MITRA Robotics Workshop in association with IEEE student Chapter”, Maharashtra Institute of Technology, Aurangabad, 2nd -4th April, 2018.

“ One day workshop on arduino” at Marathawada Institute of Technology Polytechnic, Rotegaon, 9th January, 2019.

“One day workshop on robotics and arduino” Government Polytechnic, Ambad, 10th January, 2019.

“Arduino and its applications in robotics using simulation and hardware”, Maharashtra Institute of Technology, Aurangabad, 8th -10th March, 2019.

One Week FDP on Engineering Exploration, Maharashtra Institute of Technology, Aurangabad, 30th September to 5th October 2019.

Three days workshop on Engineering Exploration, Maharashtra Institute of Technology, Aurangabad, 9 to 11 January 2020.

5 days workshop “UPKRAMA 2020” from 2 to 6 November, 2020

Invited talks delivered

“Training the Trainers for the Course: Engineering Exploration”, As a resource person, Government Engineering College, Aurangabad, 3rd - 7th August, 2018.

Delivered guest lectures to students for the subject Engineering Exploration at Government Engineering College, Aurangabad. (for 2018-19 part I, department of Electrical Engineering)

Delivered talk on robotics for children at all India Radio on 14th November 2017. Delivered talk on robotics carrier aspects at all India Radio on 13th March, 2018 .

Delivered guest lecture on IoT and its applications at Grameen Polytechnic, Nanded on 16th February, 2019.

“Training the Trainers for the Course: Engineering Exploration”, As a resource person, Government Engineering College, Aurangabad, 16th - 17th September, 2019.

Intellectual Property Rights

TEMP/E-1/4175 /2017-MUM Bhummi MITra- a Complete Soil Health Evaluation System (CSHES)

Copyright: Example for simplification of Boolean function using K-map, L-91809/2020

Novel system for measuring, screening and recording biological indicators of human bod with verification and access control. filed in September 2020.

List of Research Publications

Papers in National/ International Journal

Suhas S. Chate, Pratik Ubale, Dr. M.A. Joshi (2013). “Person Verification Using Fusion Of Palm Geometry And Palm Print.” International Journal Of Computer Applications (0975 – 8887) 0.752, Volume 73– No.17, July 2013, pp. 42-48.

Mayuri Joshi, Abhilasha Mishra ,Suhas Chate (2017). “A review : Submarine optical cables in undersea communication.” International Journal Of Engineering And Advanced Technology (IJEAT) (2249 – 8958), Volume-6, Issue-Icdsip17, March 2017 ,pp. 163-166.

Books/ Book Chapter

Human Palm: Biometric Recognition and Challenges LAP LAMBERT Academic Publishing ,Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany(2013)

Papers in National /International Conference Proceedings

S.S. Chate, P.R. Ubale , M. A. Joshi(2011), “ A New Method for ROI Extraction for Palm print Recognition.” National Conference on Machine Vision and Image Processing (MVIP), College of Engineering ,Pune, pp.221-224.

Jairaj Hire , Abhilasha Mishra, Suhas Chate, Shilpa Kodgire(2017).“Design of Compact ACS Feed Microstrip Antenna for UWB Application”,Applied Electromagnetics Conference 2017, IEEE Kolkata Section, Maharashtra Institute of Technology, Aurangabad

Dhanashri Vaidya ,Abhilasha Mishra, Suhas Chate, Gourav Jawale(2017). “ Design and Analysis of Compact High Gain & Wideband Fractal Bow Tie 4x1 Patch Array Antenna for WLAN Applications.” Applied Electromagnetics Conference 2017, IEEE Kolkata Section, Maharashtra Institute of Technology, Aurangabad

NPTEL Certification

Start Date	End Date	Duration (in Weeks)	Course Name	Marks (Out of 100)	Performance
25 February 2019	22 March2019	4	Teaching and Learning in Engineering-I	84	Elite Silver
29 July 2019	20 September 2019	8	Teaching and Learning in Engineering-I	87	Elite Silver (Topper)

Awards, Achievements and Recognition

Started robotics activities at the institute. More than 10 titles won in different competitions.

The major areas are robo sumo, aquabots, robo soccer, robowars.

Team member and mentor of Team Gaj Cyborg (Winner of International robowars 2018 at Techfest , Indian Institute of technology, Bombay)

Initiated MITRA activity for school children in the field of robotics.

Invited at Singhad Institutes as chief guest during robotics event at Singhad Karandak 2016 and 2017.

Served as mentor for Robowars event at Technovanza 2018 organized by Veer Mata Jeejabai Technical Institute, Mumbai. Was felicitated with memento from the Institute for successful conduction of event.

Date: 20th July, 2021

Place: Aurangabad