

# **CURRICULUM VITAE**

**Dr.SACHIN SURENDRA GURAV**

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## **Career**

*To Strive for Academic Excellence and Impart Quality Education.*

## **Objective**

*To make remarkable position by virtue of my education, general exposure by winning the confidence of learned seniors and keeping in mind not to be misled from the path of honesty, hard work, trust & my own principles.*

## **Educational Qualifications**

**PhD - “Suspicious Activity Detection using Surveillance Videos using Multi-Target Tracking System Logs”**

Shivaji University, Kolhapur

**M.E, Electronics & Telecommunication, “Key Clip Extraction Quick Browsing from Surveillance Videos”, May2013,First Class-66.00%**

Bharati Vidyapeeth's College of Engineering, Shivaji University, Kolhapur, Maharashtra

**B.E, “Destination Information System in Public Transport Vehicle using GPS” Electronics & Telecommunication, May 2010, First Class-62.75%**

PVPIT,Budhagaon Sangli, Shivaji University, Kolhapur, Maharashtra

## **Work**

## **Experience**

### **Experience 11 Years**

- Working as **Assistant Professor** in Electronics and Telecommunication Engineering Department at Sharad Institute of Technology College of Engineering,Yadrav Autonomous Institute affiliated to DBATU, Lonere-Maharashtra (**from 01<sup>st</sup> Feb 2016 to Till date**)
- Worked as **Assistant Professor** in Electronics Engineering Department at Bharati Vidyapeeth's College of Engg, Kolhapur affiliated to Shivaji University Kolhapur-Maharashtra (from 01<sup>st</sup> June 2014 to 31<sup>st</sup> Jan 2016).
- Worked as **Assistant Professor** in Electronics & Telecommunication Engineering Department at Dhanajay Mahadik Group of Institution.Kagal, Kolhapur affiliated to Shivaji University Kolhapur-Maharashtra (from 01<sup>st</sup> Aug 2013 to 30<sup>th</sup> May 2014).
- Worked as **Assistant Professor** in Electronics Engineering Department at Bharati Vidyapeeth's College of Engg., Kolhapur affiliated to Shivaji University Kolhapur-Maharashtra (from 13<sup>th</sup> July 2012 to 31<sup>st</sup> May 2013).
- Worked as **Lecturer** in Electronics & Telecommunication Department at Government Polytechnic, Tasgaon, Sangli. Maharashtra affiliated to MSBTE. (From 02<sup>nd</sup> Jan 2012 to

	25 <sup>th</sup> April 2012 CHB basis).
<b>Responsibilities Handled</b>	<ul style="list-style-type: none"> <li>• Central NBA Cr.5 Head</li> <li>• Innovation Centre Head, Centre of Excellence ESSCI (ESDM) Head, PCB and WSN Innovation Centre Head,</li> <li>• College IQAC Head</li> <li>• Training &amp; Placement Department Head</li> <li>• Member of Lapses Committee ,work as an Squad in University Examinations, Work as an Senior Supervisor, University Paper Setter, Syllabus Setting at University level, Paper Assessment Coordinator</li> <li>• International conference, Workshop/Seminar/Expert Lecture member</li> <li>• Result analysis committee member, Class Teacher, Time – Table Incharge</li> <li>• Magazine Committee member, Sports Committee Member</li> <li>• Consultancy Committee Member, R &amp; D Committee Member</li> <li>• NIRF coordinator, Project Coordinator etc.</li> <li>• Work as a Student Association Co-ordinator.</li> <li>• Work as a NSS coordinator.</li> <li>• Received PG recognition Teaching Load.</li> <li>• News and Advertisement Head</li> <li>• Admission Process, Scrutiny Centre Committee Head</li> </ul>
<b>Book Published</b>	<ul style="list-style-type: none"> <li>• Sachin Gurav, “Key Clip Extraction from Surveillance videos” Lambert Academic Publishing, ISBN-978-3-659-93057-7, Sep 2018.</li> </ul>
<b>Book Chapter Published</b>	<ul style="list-style-type: none"> <li>• Sachin Gurav “An Efficient method for Suspicious Activity Detection” Manuscript Number-2021/BP/2647C,Book Name-“Novel Perspective of Engineering Research”</li> <li>• Sachin Gurav “Self Sustained E-Toilet system using IOT with Sewage water treatment Plant” Handbook of Sustainable Materials, Book Name-Waste recovery and Management: An approach toward Sustainable development Goals” CRC press (Taylor and Francis group-Scopus and web of Science Indexed)-is in review process.</li> </ul>
<b>Technical Papers Published</b>	<p><b>International Journal</b></p> <ul style="list-style-type: none"> <li>• Mr.S.S.Gurav “Improved accuracy of suspicious activity detection in surveillance video” International journal of engineering and advanced technology 9 (3), 267-270</li> <li>• Mr.S.S.Gurav “Gesture controlled Robotic Arm” International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 05 Issue: 06   June - 2021 ISSN: 2582-3930.</li> <li>• Mr.S.S.Gurav “Dual Axis Solar Tracking System and IOT Weather Reporting System” Journal of Electronics and Communication Systems Volume 6 Issue 2 Year 2021.</li> <li>• Mr.S.S.Gurav “An Efficient method for Suspicious Activity Detection” IJITEE Elsevier Scopus indexed Vol.8, Issue 11, Sep- 2019.</li> </ul>

- Mr.S.S.Gurav “Inter vehicle communication system using Li-Fi system “MAT journal Vol.4, Issue 2, 2019.
- Mr.S.S.Gurav “Image processing based notice board reader using Raspberry-Pi” MAT Journal Vol.4, Issue 2, 2019.
- Mr.S.S.Gurav “Compact video streaming & background extraction using pyramidal optical flow reduction” MAT journal vol.3 2018.
- Mr. Sachin Gurav Vijay Kumar T. Korishetti, Asit R.Kittur, Veeresh P.M,” Cell Phone Technology For Visually Impaired - A Vibration Based Braille Perception”, International Journal of Electronics and Communication Technology, IJECT Vol. 6, Issue 2, April - June 2015.
- Mr. Gurav Sachin S. Prof. Desai K. R.” Face Identification & Detection Using Eigen faces” International Journal of Engineering Sciences & Research Technology (IJESRT) ISSN: 2277-9655, Jan-2013.
- Mr. Gurav Sachin S. “Key clip extraction for Quick Browsing from Surveillance Videos ” International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 11, ISSN: 2278-0181, November – 2013.

#### **International Conference**

- Dr Sachin S Gurav “Performance Evaluation of Automatic Suspicious Activity Detection Method” 2023 2nd Advancement International Conference for in Technology (ICONAT 2023) IEEE conference 2023, 24/01/2023.
- Mr. Gurav Sachin S. “Embedded Solutions for Aircraft Fault detection & Passenger Safety System using Wireless Technology” IFERP (ICRCET) 2017, ISBN: 978-81-932966-5-3, 2017/2/23.
- Mr. Gurav Sachin S. “Artificial Solar Oxygen Tree for Multifarious Techniques using Electrolysis Process” IFERP (ICRCET) 2017, ISBN: 978-81-932966-5-3, 2017/2/23.
- Mr. Gurav Sachin S. Prof. Desai K. R. “An Immersive System for Quick Browsing and Visualizing Surveillance Video” (IFERP) ICRCET-2017, ISBN: 978-81-932966-5-3, 2017/2/23.
- Mr. Gurav Sachin S. Prof. Desai K. R. Mr. Kadam Sudhir A. “Key clip extraction for Quick Browsing from Surveillance Videos” ICIASP-2013. November-2013.
- Mr. Gurav Sachin S. Prof. Desai K. R. “An Immersive System for Quick Browsing and Visualizing Surveillance Video” ICIASP-2013. November-2013.

#### **National Conference**

- Mr. Gurav Sachin S “Advanced Electronic Braille Technology Using Microcontroller” NCRET, 2018/3/24.
- Mr. Gurav Sachin S “Automatic RTO symbol detection system” NCRET, 2018/3/24.
- Mr. Gurav Sachin S. “Key clip extraction for Quick Browsing from Surveillance Videos” NCETET-2013. October -2013.
- Mr. Gurav Sachin S. Prof. Desai K. R. “An Immersive System for Quick Browsing and Visualizing Surveillance Video” NCETET-2013. October-2013.

**Professional  
Affiliation**

- International Society for Technical Education (ISTE) Life Member ID is 136325.
- International Society of Research & Development (ISRDR)-(M4150905064) London, United Kingdom
- Institute for Engineering Research and Publication (IFERP) (PMIN60913874), India.
- International Association of Engineers (IAENG) – (205858) Hong Kong.
  - IAENG Society of Artificial Intelligence, Taiwan.
  - IAENG Society of Bioinformatics, Canada.
  - IAENG Society of Computer Science, Canada.
  - IAENG Society of Electrical Engineering. Hong Kong.
  - IAENG Society of Industrial Engineering. Hong Kong
  - IAENG Society of Imaging Engineering, Taiwan
  - IAENG Society of Information System Engineering, Hong Kong.
- International Society for Development & Sustainability (ISDS) (M007825)
- i-Explore International Research Journal Consortium (IIRJC). ID 14042.
- Member Internet Society ID: 152797.
- Member of ‘Editorial Board’ of ‘Blue Eyes Intelligence Engineering & Sciences Publication and its Journals.
- Member of ‘Editorial Board’ of ‘Lattice Science Publication’ and its Journals.
- Orcid ID-<https://orcid.org/0000-0002-1737-1946>
- Scopus Author ID- 57211290275

**Consultancy &  
Project**

Projects Handled 40+ & Consultancy Revenue Generated

- One project Sponsored by Electro dream, Kupwad & Maharashtra Government Installed in Vadgaon Municipal Co-operation, “Self Sustained E-Toilet System using IOT with Sewage Water Treatment Plant” Amount Funding-**06 Lakh only.**

Achievements of Project -

- Winner in Regional level Project Competition organised by **DTE.**
- Winner in 12<sup>th</sup> International Project Competition organised by **UNESCO, INCCU.**
- Winner in National level event PRAKALP 2K22 organised by KIT.
- Winner in National level event GRAVITA 2K22 organised by NMCOE.
- Winner in Paper presentation in INNOVATION2K22 organised by SITCOE.
- Second Prize in National level Project Competition INNOVATION2K22 organised by SITCOE.
- Second Prize in National level Project Competition TECHNIX 2022 organised by Don Bosco COE, Goa.
- “Self Sustained E-Toilet system using IOT with Sewage water treatment Plant” Handbook of Sustainable Materials, Book Name-Waste recovery and Management: An approach toward Sustainable development Goals” CRC press (**Taylor and Francis group-Scopus and web of Science Indexed**)-is in review process.
- 02 Projects selected “**Smart India Hackthon**” organised by AICTE.
  - Team Spyker selected in top four and presented in “**Smart India Hackthon 2020**” Competition organized by **Govt of India**, Problem Statement on “**Identification of suspects based on their motions or objectionable/ illegal/ improper behavior**” Ministry/ Organization name **Govt of Madhya Pradhesh.**
  - Team Peak Performers selected in “**Smart India Hackthon 2022**” Competition organized by **Govt of India**, Problem Statement on “**Solution could be in the form of Waste segregation, disposal, & improve sanitization system**” under

Clean and green Technology.

- 01 Project selected “**Mitshubishi Electric cup**” under problem statement “Building Management System”
- 02 Project selected for “**Toycathon**” Team Delight, Team Edutech in under hardware category.

Project Title	Funding Agency	Revenue Generated
PCB, Flower vase, Light strips, Sensor Modules.	Surya Electronics, Ichalkaranji	40,000/-
Temperature relative humidity and barometric air pressure.	Geetadeep Enterprises, Kolhapur.	45,000/-
Temperature moisture wireless data Logger system.	Geetadeep Enterprises, Kolhapur.	45,000/-
Grey Inspection Device for Textile Industry	Technowave solutions, Ichalkaranji	50,000/-
Solar charge controller	Geetadeep Enterprises, Kolhapur	10,000/-
Six watt wireless power supply for low power sensor applications	Mukund Electronics, Sangliwadi	20,000/-

### Short-Term Courses

- One week FDP on “Effective Research Paper & Proposal Writing” organized by SIT 04th Jan to 08th Jan 2023.
- Three Days FDP on “Industrial Automation with PLC, SCADA” organized by Venjay Automation Bengaluru & SITCOE, 25 Aug to 27 Aug 2022.
- One Week FDP on “Python, Data Science & Machine Learning” organized by ISTE, SITCOE, 19<sup>th</sup> July to 23<sup>rd</sup> July 2022.
- One week FDP on “Research Methodology, Research Publication and Patent Filing” organized by SITCOE, 20 to 24 Sep 2021.
- FDP on “ARM-Cortex M4-F Based on Tiva Launch pad” organized by SITCOE on 28 to 30 April 2020.
- Two Week FDP on “Machine Learning & Deep Learning hands on experiments on Python” Organized by SITCOE and RDBG, Kolhapur, 01 to 09 June 2020.
- Participated on “Recent Trends In Wireless Communication” organized by R.C.Patel Institute Of Technology, Shirpur, 07 June 2020.
- Participated on “Recent Trends in Nano biotechnology and its Application” organized by GMR Institute of Technology, Rajam, 07 June 2020.
- Participated on online quiz “Information Technology (ICT)” organized by Bharat College of Engineering, Badlapur.
- Participated on “Emerging Trends and Career Opportunities Information Technology” organized by AISSMS, Pune, 06 June 2020.
- Participated on online quiz “Engineering Mathematics-Disorganized by MET’S Institute of Engineering BKC, Nashik, 26 May 2020.
- Participated on online quiz “Surveying & Transportation Engineering” organised by Aravali Institute of Technical Studies, Udaipur, 25 May 2020.
- Participated on online quiz “E-Techno-Quiz on Nanotechnology Nano science” organised by Nagpur Institute of Technology, 25-27 May 2020.

- FDP on “Recent Trends & Innovation In Digital Forensic” organised by AISSMS, Pune, 25-30 May 2020.
- Participated on online quiz “Research Methodology” organized by MIT College, Alandi, Pune, and 25 May 2020.
- Participated on “Formwork Design and Safety Aspect” organized by College of Engineering, Pune, 22-26 May 2020.
- Participated on “Software Debugging open source scailab software” organized by Institute of Road and Transport Technology Erode, Tamilnadu, 24 May 2020.
- One Week FDP on “Overcoming the Challenges in Adapting Online Technology in Teaching Learning” organized by Jhulelal Institute Of Technology, Nagpur, 06-11 May 2020.
- FDP on “JAVA” organized by AISSMS Polytechnic, Pune, 17-22 May 2020.
- Participated on online quiz “Effective Verbal Communication “organized by KLE Society Science & Commerce College Kalamboli, Mumbai, 18 May 2020.
- FDP on “Artificial Intelligence “organized by BVRIT HYDRABAD College of Engineering for women, 22-26 May 2020.
- FDP on “Artificial Intelligence & Machine Learning” organized by Vemu Institute of Technology, P.Kothakota, chittoor 25-29 may 2019.
- One week FDP on “Fundamentals of C Prog” organized by SITCOE, Yadrav 25-30 Nov 2019.
- One Week FDP on “Outcome based Technical education” ISTE sponsored organized by SITCOE, Yadrav 21-26 May 2018.
- One Week FDP on “Python Programming in machine learning” organized by SITCOE, Yadrav 8-13 Oct 2018.
- One Week FDP on “Pedagogy Initiatives” organized by SITCOE, 13-17 Nov 2018.
- FDP on “Orientation Program on outcome based education” organized by SITCOE, Yadrav, 30Oct-04 Nov 2017.
- “CMOS mixed signal and radio frequency VLSI design” IIT Khargpur remote centre SITCOE, Yadrav 26 Dec-4 Feb 2017.
- One day FDP on “Carriers in Intellectual Property Rights” Organised by KBPCOE, Satara, 29 Jan 2017.
- One Week FDP on “Research opportunities” under Lead College at SITCOE, Yadrav, Dated on 1-6 Dec 2016.
- One Week FDP on “Advanced Embedded Technology” sponsored by IETE organised by

	<p>SITCOE Yadrav, 8-13 Dec 2016.</p> <ul style="list-style-type: none"> <li>• FDP on “Embedded System Design” Organized by Bharti Vidyapeeth, Pune &amp; ESCI dated on 20-22 Oct 2016.</li> <li>• FDP on “Recent trends IOT” Organized By SITCOE, Yadrav, Dated on 6-11 June 2016.</li> <li>• FDP on “Industry institute partnership cell SETU” Organised By SITCOE, Yadrav, Dated on 26 -30 May 2016.</li> <li>• FDP on “Pedagogy to Synergogy” Organised By SITCOE, Yadrav, Dated on 7 -11 May 2016.</li> <li>• 43<sup>rd</sup> ISTE Convention in TKIET, Warnanagar, Kolhapur 19<sup>th</sup> Dec to 21<sup>th</sup> Dec 2013.</li> <li>• 3 Day under Lead College workshop on “I6 bit Microcontroller “at Bharati Vidyapeeth College of engineering, Kolhapur.</li> <li>• “ISTE approved STTP On Software's Used For Research in MATLAB” Organised By BCE-Kolhapur Dated on-11<sup>th</sup> Jan to 15<sup>th</sup> Jan 2013</li> <li>• “Signal/Image Processing in MATLAB” Under lead College Activity organised by SBGI-Miraj-Dated on -14<sup>nd</sup>Sep-2012.</li> </ul>	
<b>Recognition</b>	<ul style="list-style-type: none"> <li>• Reviewer “<b>International Journal of Engineering research &amp; Technology (IJERT)</b>” (ISSN: 2278-0181).</li> <li>• Reviewer “<b>CASP2016 IEEE Conference 2016</b>”</li> <li>• Reviewer “<b>Blue Eyes Intelligence Engineering &amp; Sciences Publication and its Journals</b>” &amp; “<b>Lattice Science Publication’ and its Journals</b>”</li> <li>• <b>2<sup>nd</sup> rank</b> in Glimps NIRMITI 09’held in P.V.P.I.T. Budhgaon.</li> <li>• Ample Volunteer in, ‘NIRMITI-09’ and ‘NIRMITI-2010’.</li> <li>• Working as ‘<b>Head of Robo Soccer in Nirmiti-10’ in PVPIT Budhgaon</b></li> <li>• Participate in ‘ROBOTICS’, ‘NIRMITI 09’ held in P.V.P.I.T. Budhgaon.</li> <li>• <b>1<sup>st</sup> rank in Robo Soccer</b> NIRMITI 09’held in P.V.P.I.T. Budhgaon.</li> <li>• Appreciated about best result, feedback, best outgoing projects</li> </ul>	
<b>Engineering Skills</b>	RELATIONAL DBMS	Microsoft Office
	SOFTWARES	KEIL2,3,MATLAB,Express PCB, Eagle, MPLAB IDE, Proteus, Orcad
	OS	Windows XP, 07,08,10,Linux
<b>Extra Curricular</b>	<ul style="list-style-type: none"> <li>• Appreciated as a Mentor “<b>Smart India Hackthon 2020</b>”.</li> <li>• Work as an Evaluator in “<b>Toycathon</b>”</li> <li>• Conducted <b>06 Workshops</b> on “PCB Designing and Its Applications”.</li> </ul>	

<b>Personal Strengths</b>	<ul style="list-style-type: none"> <li>• Signed <b>02 MOU</b> with College (ESSCI, Maven Silicon Bangalore)</li> <li>• Completed Training in Vidyut Engineer Pvt Ltd.Kolhapur, Geetadeep Enterprises, Kolhapur, Sharada Electronics, Kupwad.</li> <li>• Deliver Guest lecturer at Nanasaheb Mahadik Institute College, Peth Naka, Sangli,</li> <li>• Deliver 03 Lectures on Career orientation &amp; Admission process in Sangli region.</li> <li>• Invitee for Judge for Paper Presentation, Project Competition.</li> <li>• Voluntarily participated in “Cervical Cancer Screening CAMP”.</li> <li>• Dedication / Commitment to target</li> <li>• Can Work Smart and in time work.</li> <li>• Open and Honest</li> </ul>
<b>Personal Details</b>	<p><b>Name</b> : Sachin Surendra Gurav</p> <p><b>Gender</b> : Male.</p> <p><b>Height</b> : 5.05”</p> <p><b>Religion/Caste</b> : Hindu/Gurav(OBC)</p> <p><b>Date of Birth</b> : 04<sup>th</sup> June 1988.</p> <p><b>Languages Known</b> : English, Hindi, and Marathi.</p> <p><b>Permanent Address</b> : A/P-Yelavi, Near Vitthal Mandir, Tal – Tasgaon, Dist.-Sangli, Maharashtra,India Pin-416319.</p>
<b>Reference</b>	<ul style="list-style-type: none"> <li>• <b>Dr.B.B.Godbole</b> <b>Dean Research &amp; Development, Professor, SKN Sinhgad COE, Korti, Pandharpur</b> <b>Ph-+919881205059</b></li> <li>• <b>Dr S R Chougule</b> <b>Dean PG, Research &amp; Development, KITCOE, Kolhapur</b> <b>Ph-+919422043104</b></li> </ul>

**DECLARATION**

I hereby declared that the above written particulars are true to best of my knowledge and belief.

**Dr. Sachin Surendra Gurav**