**CURRICULAM VITAE**

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| **Ms. SuwarnaSalvitthalDongare** | |
| **Address:** | Plot No. 287, sector 24, Pradhikaran, Nigdi,Pune-411044 | **Mobile No. :** | 9730938330 |
| **E-mail :** | suwarna.salvitthal@gmail.com |

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| **Objective** |
| To utilize my capability & energy in most effective way in right direction to achieve long term success. | |

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| **Personnel Details** | |
| **Date of Birth :** | 9th Aug 1988 | | **Marital Status:** | Married |
| **Languages Known :** | English, Hindiand Marathi | | **Gender:** | Female |
| **Caste:** | Hindu - Maratha | | | |

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| **Certification** |
| Have done C language course in SRS institute, Goa  Have done Oracle 8i course in SRS institute,Goa | |

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| **Educational Qualification** | | |
| **Degree** | **School/College** | **University** | **Year of passing** | **Aggregate** |
| M.E.(Signal Processing) | PE’s Modern College of Engineering, Shivajinagar , Pune-05 | SavitribaiPhulePune University | Dec 2015 | First Class  SGPA 7 |
| B.E. (Electronics & Telecommunication) | SVERI’s College Of Engineering, Pandharpur, Maharashtra. | Solapur University,  Maharashtra. | 2009 | 70.85% |
| All Years **FE** to **BE First Class with Distinction** | | | | |
| H.S.C. | EnglishSchool and Jr. collage Mangalweda,Solapur, Maharashtra. | Pune Board,  Maharashtra. | 2005 | 79.67 % |
| S.S.C. | ShriDattaVidyaMandir, Suste, Pandharpur, Solapur, Maharashtra. | Pune Board,  Maharashtra. | 2003 | 73.73 % |

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| **Software Exposure** | | |
| **Operating Systems :** | Windows 2000/XP | | |
| **Programming Languages :** | MATLAB , Embedded C, HTML 5, CSS, C, C++, SQL,VHDL | | |
| **Software Proficiency:** | MATLAB R2014a, Microprocessor, KEIL, MPLAB, PSPICE, XILINX Pinnacle, Protel, Protus, Express PCB, Eagle | | |
| **Databases :** | Oracle 8i | | |
| **Employment Details** | | | |
| **1. Lecturer (5 months)** | | | SVERI’s College of Engineering, Pandharpur.  Subjects Undertaken:  1.VLSI Technology(Theory & Practical's on XILINX)  2.DSP (Practical's MATLAB) | | |
| **2.Lecturer(2.5 years)**  **From (Jan 2010 to May 2012)** | | | D Y Patil College of Engineering, Akurdi, Pune-44.  Subjects Undertaken:   1. Network Analysis (TH) 2. Basic Electronics Engineering(TH) 3. Electronic Design Practice (PR) 4. Mini Project & Seminar(PR) 5. Audio Video Engineering(PR) 6. Electronic Instruments &Tools(TW & PR) | | |
| **3. Spectrum Classes(1.8 year)(17 Dec 2014 to Oct 2016)** | | | 1. Digital Electronics  2. Advanced DSP  3. Network Theory  4. Microprocessor and Microcontroller | | |
| **4. Software Developer(since August 2016)(Current Employer)** | | | SSP Technology Pune  MATLAB Based Projects design and implementation--in areas  Image Processing  Signal Processing  Wireless Communication-RADAR , Spectrum Sensing  Embedded Projects in PIC 18f4520,PIC 16f877, Raspberry Pi | | |

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| **Prjects Handled** | | |
| Sr. No. | Name of Project | **Roles and Responsibilities** |
| 1. | Segmentation of Diabetic Retinopathy Retinal Eye Image | Role: **Matlab developer**  Segmentation Algorithm Developed by first  Pre-Processing using Switched Median Filter, green channel extraction, Contrast Enhancement by CLAHE, thresholding using ISODATA then at last overlay. |
| 2 | Image Processing based Attendance Monitoring System | Role: **Matlab and Embedded developer**  An Automatic Attendance System in a classroom environment. The system first stores the faces of the students in the database. The detected faces are compared with the faces stored in the database during face recognition. If the system recognizes faces, the attendance gets marked immediately of recognized faces. If the person is not detected for more than three times then corresponding student’s name is recorded and is sent to class teacher using GSM. |
| 3 | Gender-Driven Emotion Recognition through Speech Signals for Ambient Intelligence Applications | Role: **Matlab developer**  An energy-efficient architecture to extract mel-frequency cepstrum coefficients (MFCCs) for speech recognition systems. Based on the algorithmic property of MFCC feature extraction, the architecture is designed with floating-point arithmetic units to cover a wide dynamic range with a small bit-width. Moreover, various operations required in the MFCC extraction are examined to optimize operational bit-width and lookup tables needed to compute nonlinear functions, such as trigonometric and logarithmic functions. In addition, the dataflow of MFCC extraction is tailored to minimize the computation time. The obtained results show that the features selection adoption assures a satisfying recognition rate and allows diminishing the employed features, SVM classifier is used |
| 4 | Fruit Quality Detection using Image Processing for Blind Person | Role: **Matlab and Embedded developer**  Jugement of fruits is not possible for blind persons. Aim of project is to judge the quality of fruit by its appearance. It can be beneficial for blind people and a fruit vendor to detect the quality of fruit. Very first the image of the fruit is capture by the camera. The input image is cropped and resized according to the requirement. The input image is converted into gray scale. The features of the image are calculated using PCA algorithm and are compared with the database which already contents features of variety of fruit quality using SVM.System generates output to decide quality of the fruit. This information is sent serially to PIC18F4520. PIC controllers output is text and voice. Result is also Displayed on 16X2 LCD. |
| 5 | Portable Camera-Based Assistive Text and Product  Label Reading From Hand-Held Objects for  Blind Persons | Role: **Matlab**  Camera-based assistive text reading framework to help blind person read text labels and product packaging from hand-held objects in their daily lives, simultaneously direct for the navigation of places with the help of signs which are basically in every public and private places. To isolate the object from cluttered backgrounds or other surrounding objects in the camera view, first an efficient and effective motion based method to define a region of interest (ROI) in the video by asking the user to shake the object. In this system, moving object region from background is extracted. In the extracted ROI, text localization and recognition are conducted to acquire text information. To automatically localize the text regions from the object ROI, a novel text localization algorithm by learning gradient features of stroke orientations and distributions of edge pixels can be used. Text characters in the localized text regions are then binarized and recognized. Recognized text codes in the form of speech or audio. |

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| **Conference /Workshop/Seminar Conducted:** | | | |
| Sr. No. | Name of Project | Place | Dates |
| 1. | “Pioneer ” National Level Paper Presentation | COEPPandharpur | 24-25 Sept.2009 |

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| **Conference /Workshop/Seminar Attended:** | | | |
| Sr. No. | Name of Project | Place | Date |
| 1 | Attended the STTP program on ‘Research Topics in Signal & Image Processing ‘ | PCCOE College Nigdi, Pune | May 2011 |
| 2 | Attended ‘Syllabus Discussion’ workshop for T.E. | Sinhgad College, Narhe. | Feb 2011 |
| 3 | Introduction to ‘Labview’ Software | D.Y.P.C.O.E , Akurdi | 30 Jan 2010 |
| 4 | National Level Paper Presentation | KIT,Kolhapur | 30 Oct. 2009 |
| 5 | VERISMO,National Level Event | VPCOE,Baramati | Oct. 2009 |
| 6 | TECHPEPRICA 2K7,State Level Paper Presentation | WCE,Sangali | July 2008 |
| 7 | Aawishkar 2K7, National Level Paper Presentation | COEP,Pandharpur | 17-18 Mar 2007 |
| 8 | ICON 2K7,National Level Paper Presentation | SGGS,Nanded | 12-13 Feb 2007 |

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| **Others** | | |
| **Achievements and Co &Extra Curricular Activities** | | |
| 1 | Presented paper on `Nature links to technology by bio-nanorobotics' Secured **1stPrize** (National Level) inCOEPPandharpur | | |
| 2 | Presented a paper on ‘Mimicry of nature by Bio-nanorobotics’ Secured **2nd Prize** (National Level) in SGGS Nanded. | | |
| 3 | Presented a paper on ‘Trends in Mobile Communication‘in WC Sangali. | | |
| 4 | Presented Paper on `Robotics and Industrial Control' in KIT Kolhapur. | | |
| 5 | Presented a Poster on ‘Nanorobotes’. Secured **2nd Prize** (National Level) inCOEPPandharpur | | |
| 6 | Presented a Poster on ‘Gigabit Ethernet: An Emerging Technology’ in VPCOE Baramati. | | |
| 7 | Member of ‘Student Council 2006- 07’ (**Ladies Representative**) for SolapurUnversity | | |
| 8 | **1stRanker FE 2005-06 Academics** | | |
| 9 | Member of suggestion committee of college 2005-06 and 2007-08. | | |
| 10 | Member of high level standing committee of college for ragging prohibition. | | |
| 11 | Worked as Coordinator for Cricket, Chess, basketball, Kabbaddi at college level. | | |
| 12 | Active member of `Organizing Committee' in Cultural functions | | |
| 13 | NSS member For years 2007-08, 2008-09. | | |
| **Hobbies:** | |
| Collecting flowers,Reading biology & science related articles | | | |

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| **Administrative Work** | |
| 1. | Worked as a **Class Teacher** for the S.E.(A).( Academic Year 2011-12) |
| 2. | Worked as a **Subject Incharge** for the B.E.E.subject (F.E.) Sem.II academic Year 2010-11, 2011-12 |
| 3. | Worked as a **Lab-Incharge** for Basic Lab |
| 4. | Worked as a**Ass. Lab-Incharge** for Electronic Design Lab. |
| 5. | Worked as an IETE Students Activity coordinator |
| 6. | Worked as an Invigilator in the Theory Examination. |
| 7. | Worked as Expert in the Practical Examination. |
| 8. | Worked in The ‘Documentation Committee’ of Department. |
| 9. | Worked in The ‘E-mail Committee’ of Department. |

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| **Declaration** |
| I hereby declare that the particulars given here in are true to the best of my knowledge and belief. If any of this information is found to be false or incomplete I will be responsible for it. | |

**Date: SIGNATURE**

**Place**: (Ms. SuwarnaSalvitthalDongare)