

CURRICULUM VITAE

Name: SAUMITRA CHANDRAKANT LALSARE

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CAREER OBJECTIVES:

To gain a good organization that will enable me to use my strong skills, education, and ability to work well in the team as well as give me the satisfaction of working for my Country.

EDUCATIONAL QUALIFICATIONS:

| Examination Passed | Year of Passing | Institute | Board/ University | Marks/ CGPI |
|--------------------|-----------------|-------------------------------------|-------------------|-------------|
| M.Tech – EXTC | 2018 | VJTI, Matunga, Mumbai | Mumbai | Appearing |
| B.E.- Electronics | 2016 | K J Somaiya COE, Vidyavihar, Mumbai | Mumbai | 7.04/10 |
| HSC | 2012 | Birla College, Kalyan | Maharashtra | 84.00 % |
| SSC | 2010 | G.E.I's High School, Kalyan | Maharashtra | 93.45 % |

ADDITIONAL QUALIFICATIONS:

Successfully Completed 2 months course in Control & Automation at INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS (IDEMI), Ministry of Micro Small and Medium Enterprises (MSME), Govt. Of India, Mumbai including following topics:

Industrial Motors & AC Drives, Micro PLC & Relay logic, Advanced PLC (ABB, Siemens, Allen Bradley), HMI, SCADA, Automation in Pneumatics & Hydraulics, Energy Management & Conservation, Process Automation & Control.

PROJECTS COMPLETED:

Project 1:

| | | | |
|------------------------|---|-----------------|--------------------|
| Project Name | Mobile controlled robot | | |
| Technology Used | Dual Tone Multi Frequency (DTMF), CM8870 as a binary convertor of frequency | | |
| Description | Robot movement controlled with assigned cell phone key. CM8870 converts the caught frequency into binary. | | |
| Team size | 2 | Duration | 10 days (Jan 2014) |

Project 2:

| | | | |
|------------------------|---|-----------------|--------------------|
| Project Name | Home Automation and Security using PSOC5 LP and GSM SIM900A | | |
| Technology Used | Highly advanced and latest species of Microcontrollers: PSoC5LP and SIM900A | | |
| Description | Can Protect the home from threats and attacks and also automate domestic equipment using mobile. PSoC boards are more compatible than big PLC panels and cheaper and hence replaceable with PLC panels. | | |
| Team size | 3 | Duration | 1 month (Feb 2015) |

Project 3: Separation of instrumental sound from human voice by **Speech processing**.

Project 4:

| | | | |
|------------------------|--|-----------------|--------------------------------|
| Project Name | Solar Powered Agribot- Fully automated with Security (Prototype) | | |
| Technology Used | Android phone controlled agricultural fully automated Robot by GSM. (Using PSoC 5 LP, GSM SIM900A, 20W Solar panel, 12V rechargeable battery) | | |
| Description | Can be operated manually or automated. Can work same as actual tractor (Ploughing, Seeding and Fertilizer spraying). Pollution free. Power efficient. Fully Secured and automated by GSM for Feedback. Hydraulics planned to be added in actual. | | |
| Team size | 3 | Duration | 3 months (Dec 2014 - Feb 2015) |

B.E. Final Year Project:

| | | | |
|------------------------|---|-----------------|---------------------------------|
| Project Name | Industrial Automation using PLC | | |
| Technology Used | Bottle filling plant using Cubloc microPLC CB280 and PSOC 5LP(as Backup) | | |
| Description | A small bottle is filled with liquid and cap is fitted. Bottle and conveyor belt quality parameters are checked with IR sensors, colour sensors and Image Processing with Arduino interface, webcam and corresponding sorting is done with simultaneous display on the screen by SCADA. | | |
| Team size | 2 | Duration | 8 months (Sept 2015 - Apr 2016) |

M.TECH PROJECT: Working on '*Synthesizing Radio Images from 3D modelling of the Solar active region*' under the guidance of Dr. R. K. Shevgaonkar and Prof. P. B. Borole at IIT Bombay.

Electives Taken: Artificial Neural Network and Machine Learning, Biomedical Electronics, Advanced Image and Video Processing

PERSONAL DETAILS:

- Address : 101, Matrubaug Annex, Near Telephone Exchange, Agra Road, Kalyan (W)
- Date Of Birth : 18th July, 1994
- Gender : Male
- Marital status : Unmarried
- Religion : Hindu
- Nationality : Indian
- Languages known: English, Hindi, Marathi (Read, Write, Speak)
- Blood group : B+
- Hobbies : Cycling, Playing Tabla

SKILLS AND CERTIFICATIONS:

- Certified by CETTM, MTNL, Mumbai in the courses- HTML, CSS, MySQL, PHP, etc.
- Certified by NPTEL in VLSI Technology Online Examination.
- Meritorious performance in Maharashtra Talent Search Exam 2008 & 2009 and cracked level II of Junior Science Olympiad (net) 2008.
- Placed in top 10% in National Standard Exam in Astronomy 2007-08 (Junior Level) by IAPT.

ACHIEVEMENTS AND AWARDS:

- Developed 'Agribot' project for the Country and for our Farmers.
- Achieved 1st rank in 'Robo-Galaxy 2013' national level competition.
- Won 2 State Level prizes & 3 National Level Prizes in 'AGRIBOT' .
- Participated in 12 different workshops on VHDL, Verilog, Matlab, Scilab, Labview, Virtual labs, etc.
- Uploaded 'Industrial Automation' video on youtube : <https://www.youtube.com/watch?v=2hOVOckPDi4>

DECLARATION:

Hereby, I assure you that the above given information is true as per the best of my knowledge.

Place:

Yours Faithfully,

Date:

(Saumitra Chandrakant Lalsare)