RAVINDRA SURESH GAIKWAD

MALE, MAY 28TH 1992

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SCHOLASTIC RECORD

Year	Degree	Institute	CGPA/%	Remarks
2018	Doctor of Philosophy	IIT Madras, Chennai	**7.98/10**	**Pursuing**
2016	M.Tech (Electronics and comm.)	DEE,Pondicherry University,pondicherry	**8.96/10**	**Distinction**
2013	B.Tech (Electronics and Telecomm.)	S.G.G.S.I.E.& T, Nanded	**7.34/10**	**First Class**
2009	12th (Maharashtra State Board)	S.B.E.S College of Sci, Aurangabad.	**75.64**%	**Distinction**
2007	10th (Maharashtra State Board)	B.P Vidyalaya Aurangabad.	**85.53**%	**Distinction**

PROJECTS UNDERTAKEN

PONDICHERRY UNIVERSITY,PONDICHERRY	July 2015 – December 2015
Project Title: Design and modelling of microfluidic channel for BioMEMS application	
Methodology	➢ To design a microfluidic channel for **BioMEMS** applications. ➢ Case study of microfluidic devices in drug delivery and development, point of care diagnosis and environment monitoring ➢ To study different cell separation techniques specially **Dielectrophorosis (DEP)** process**.** ➢ To study fluid mechanics in micro channels. ➢ Mathematical modelling of microfluidic channel by **COMSOL Multiphysics** software.
Deliverables	➢ Differentiation of biological cells according to their **dielectric properties**. ➢ Separation of **dead cells** from **water**. ➢ Optimization of channel design for **Dielectrophorosis (DEP)** application. ➢ **Validation** of microfluidic channel by **hydrodynamic simulation**.
SGGSIE&T, Nanded	July 2012 – April 2013
Project Title: Ultrasonic tactile reflex provision	
Methodology	➢ To build as **autonomous system** for visually blind persons. ➢ To study available technologies for visually impaired persons ➢ **Modularised** the project in three different parts (Helmet, Gloves, and Shoes). ➢ **Synthesis and Simulation** of embedded C-code on hardware kit ➢ **Continues time evaluation** of software, time utilized and provide optimum algorithm.
Deliverables	➢ Detection of obstacles from **front, back, left, Right** sides by using rotating ultrasonic. ➢ Acknowledgment or approximation **of dimension of obstacle.** ➢ Acknowledgment of **step sizes of staircases** at public places, different/new environment. ➢ **Prevention of skidding** over slippery surfaces by use of moisture sensor.

INDUSTRIAL TRAINING

All India Radio, Nanded	
Methodology	➢ Study of **Radio system** and implementation in India. ➢ Study **benefits of FM** over AM as replacement tool ➢ Study **channel spacing** scheme implemented and bandwidth associated. ➢ Study of **transmission area constrains**.
Deliverables	➢ **FM is being used in India** considering benefits of FM over other modulation techniques. ➢ Specific **Bandwidth** is allotted to different channels for transmission. ➢ Specific **guard bands** have to be inserted between two channels to avoid interference. ➢ **Broadcasting is limited to an area** as FM has constrains over transmission while advantage of frequency reuse is benefited.

PROGRAMMING LANGUAGE SKILLS:

	➢ C-language, Embedded C language.

POSITIONS OF RESPONSIBILITY

Clubs of College	➢ **Sub co-ordinator**, **Research and Development-Knowledge Centre(RnD-KC**)

AWARDS & ACHIEVEMENTS

	➢ A member of winning football team in college level competition.

Publications

Book Chapter	Gaikwad R.S., Sen A.K. (2018) The Microflow Cytometer. In: Bhattacharya S., Agarwal A., Chanda N., Pandey A., Sen A. (eds) Environmental, Chemical and Medical Sensors. Energy, Environment, and Sustainability. Springer, Singapore

PERSONAL INFORMATION

Strong points	➢ Dedication for work, Leadership quality, Time management, enduring.
Hobbies	➢ Adventures sports, sketching.

LANGUAGE SKILLS:

	➢ English, Marathi, Hindi, German.