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## DABBUSUMAN

### **Career Objective:**

To secure a challenging full-time position for applying my technical, communication, and teamwork skills effectively to become a good Research scholar in the field of Biomedical Engineering to improve the organization while fostering both my personal and professional growth.

### **Education**

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#### **M. E. in Biomedical Engineering (2009-2011)**

University College of Engineering  
Osmania University, Hyderabad 500007.

First Division with distinction

#### **B. E. in Biomedical Engineering (2001-2005)**

University College of Engineering  
Osmania University, Hyderabad 500007.

First Division

### **Professional Experience:**

1. I have been working as an Assistant Professor in the Department of Biomedical Engineering, University College of Engineering, Osmania University, Hyderabad, since June 11th of 2007. I have strong reasons to believe that I possess the temperament for teaching, a good power of speech and a thorough and extensive knowledge of my field traits required for a successful teaching career. This experience developed and honed my skills of organizing and communicating my thoughts in front of a responsive and critical audience.
2. I served as an assistant Professor in the department of BME, Padmasri Dr.BVRIT college of Engineering, Hyderabad, during 2005-2007.

### **Achievements:**

- Secured 1<sup>st</sup> rank in the All India level DIPP competitive examination conducted by CSIR and DIPP (Department of Industrial Policy and Promotion, Govt. Of India) and selected as an “**Examiner of Patent and Design**” during January 2011 at Indian Patent Office, New Delhi.
- Got the best paper award for the paper titled” “**Design of RF Source Generator for Hyperthermia Treatment of Cancer by Using Nano particles**” under the division of Nano-Biomaterials at an International Conference on Nanomaterials and Biosensors-2 (ICNB-2) organized by INTERNATIONAL ACCREDITATION COUNCIL OF QUALITY EDUCATION AND RESEARCH (IACQER) at Raghu Engineering College, Vishakhapatnam, during 28-29<sup>th</sup> Dec, 2011.

### **FDP's/Trainings/Workshops/Conferences attended**

S.No	Course	Duration	Venue
1	3 <sup>rd</sup> Bangalore Cognition workshop	8-21 <sup>st</sup> , Dec 2013	IISC, Bangalore

2	Faculty development program on “Embedded systems by using DSP’s”	20-31 <sup>st</sup> , May 2013	College of Engineering, Pune
3	Orientation Course	30.7.12-30.8.12	UGC Academic staff College
4	Workshop on “Micro & Nano Fabrication”	27 <sup>th</sup> ,Feb-2 <sup>nd</sup> March, 2012	IIT Kanpur
5	Finishing School on Real Time Signal Processing-09 (RTSP-09)	25 <sup>th</sup> June-8 <sup>th</sup> July, 2009	Dept.of ECE, UCE(A), OU

### Workshops/Conferences Organized

- Coordinator for the Hands on training program on “**MATLAB for Engineers**” during 23-24, Aug, 2013 at department of BME, UCE (A), OU.
- Convener for the National workshop on “**BIOMEDICAL SIGNAL PROCESSING**” in the department of BME, UCE, OU during 2009.
- Co-convener for the national workshop on “**BIOMEDICAL INSTRUMENTATION**” in the department of BME, UCE, OU during 2008.

### Courses taught

B.E	M.E
Digital signal processing Theory & Lab	Advanced Biomedical Signal Processing
Biomedical Signal Processing Theory & Lab	Medical Sensors
Mat lab & Virtual Instrumentation Lab	Transducers and biosensors Lab
Circuit Analysis	
Signal Analysis and Transform techniques	
Biomedical Instrumentation Theory & Lab	
Biomedical Equipment Lab	

### Computer Skills

Languages	C, C++ and Embedded C.
Operating Systems	Windows 98/2000, MS-DOS,MS-office, MS-excel
Packages	Mat lab, networking concepts, and Labview, ORCAD,

### Projects done

Project (M.E)	<b>Time and Frequency domain analysis of Heart Rate variability during breathing</b>
Client	Osmania University
Role	Project Leader
Duration	12 Months
Team Size	Individual
Brief	I have developed modules which monitors ECG and respiratory waveforms, and interfacing those with the microcontroller to analyze the data in the Mat Lab.

Guided projects	Projects Titles
<b>B.E/M.E projects</b>	Effect of ancient techniques of yoga on various physiological parameters of

the patients suffering from asthma and hypertension
A GUI based tumor detection technique for the pre treatment planning of cancer surgery
A EEG based diagnostic tool for the vigilance monitoring
Statistical removal of Ocular artifacts of EEG by using Stationary wavelet Transform
Synthesis and Characterization of Nickel-Ferrite particles for medical applications
Dicrotic Notch Detection and Analysis of Arterial Pulse by using Discrete Wavelet transform
Microcontroller based Heart rate Variability analysis during different breathing patterns
Spectral analysis of ECG and Respiration to yield the interdependencies of the cardiac and respiratory systems
ocular artifacts removal from the EEG by using Independent Component Analysis

### Publications:

- ❖ **“EFFECT OF ANCIENT TECHNIQUES OF YOGA ON PHYSIOLOGICAL PARAMETERS OF THE PATIENTS SUFFERING FROM ASTHMA AND HYPERTENTION”**, INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE & ADVANCED TECHNOLOGY ISSN: 2250–3676, VOLUME-2, ISSUE-4, 846 – 850. [http://ijesat.org/Volumes/2012\\_Vol\\_02\\_Iss\\_04/IJESAT\\_2012\\_02\\_04\\_13.pdf](http://ijesat.org/Volumes/2012_Vol_02_Iss_04/IJESAT_2012_02_04_13.pdf)
- ❖ **“Design of RF Source Generator for Hyperthermia Treatment of Cancer by Using Nano particles”** at an International Conference on Nanomaterials and Biosensors-2 (ICNB-2) organized by INTERNATIONAL ACCREDITATION COUNCIL OF QUALITY EDUCATION AND RESEARCH (IACQER) at Raghu Engineering College, Vishakhapatnam, during 28-29<sup>th</sup> Dec, 2011.
- ❖ **“Spectral analysis of ECG and Respiration to yield the interdependencies of the cardiac and respiratory systems”** at International symposium on devices, MEMS, and intelligent systems-2011(ISDMISC-2011) published by the international journal on computer applications (IJCA), at Sikkim Manipal university, Sikkim during 12-14<sup>th</sup> , April, 2011.
- ❖ **“ Dicrotic Notch detection and analysis by using Discrete wavelet Transform”** at an International Conference on Biomedical information and Bioengineering-2011 held in Chengdu, China during, January 14 -15, 2011 organized by IEEE & IACSIT.
- ❖ **“Statistical removal of Ocular artifacts of EEG by using Stationary wavelet Transform”** at an International Conference on Biomedical information and Bioengineering-2011 held in Chengdu, China during, January 14 -15, 2011 organized by IEEE & IACSIT.
- ❖ **“Microcontroller based Heart rate Variability analysis during different breathing patterns”** at National Symposium on Instrumentation-35 (NSI-35) organized by Instrumentation Society of India, IISC Bangalore and Visveswarayya University, Belgaum during, January 4 -7, 2011.
- ❖ **“Non invasive diagnosis of arterial sclerosis by wavelet detection of Dicrotic notch”** at National Symposium on Instrumentation-35 (NSI-35) organized by Instrumentation Society of India, IISC Bangalore and Visveswarayya University, Belgaum during, January 4 -7, 2011

- ❖ “Analysis of ECG and Pulse by using Discrete Wavelet Transform” in national “Control Instrumentation Conference” (CISCON-2010) held in MIT, Udipi, Bangalore during November 2010.
- ❖ “De noising of EEG by using Stationary Wavelet Transform” in national “Control Instrumentation Conference” (CISCON-2010) held in MIT, Udipi, Bangalore during November 2010.
- ❖ ” **BIOSENSORS AND THEIR APPLICATIONS IN MEDICAL FIELD** “in the MEDITECH-2006 which is a national conference held in February 2006 in University College of Engineering, Osmania University.

**Key skills:**

**Hospital training and visits:**

1. In Osmania general hospital (Hyderabad) about clinical and analytical instruments.
2. In Nizams institute of medical sciences (NIMS) about various medical imaging techniques.
3. In Durgabhai deshmukh hospital (Hyderabad) about various diathermy techniques and cardiology equipments.
4. In Gandhi hospital (Hyderabad) about nephrology equipments.

<b>Curricular Activities</b>
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- ❖ ‘Treasurer’ for MEDITECH-2005 - A National Level Technical Symposium conducted by Department of Biomedical Engineering, Osmania University.
- ❖ ‘Coordinator’ for All Go Rhythms 2005 – Cultural Festival of OU Engineering College, during Platinum Jubilee Celebrations.

<b>Personal Details</b>
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Fathers Name : D.Narshimha Reddy  
 Date of Birth : 25<sup>th</sup> may 1983  
 Gender : Male  
 Nationality : Indian  
 Language proficiency : English, Hindi and Telugu

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**Declaration:** I hereby declare that the information furnished above is true to the best of my knowledge.

**Date:** 28/11/2013  
**Place:** Hyderabad.

**(D.SUMAN)**