

## CURRICULUM VITAE

**Dr. Apurva Abhijit Naik**

**Date of Birth: 23/07/1971**



**Associate Professor**

**School of Electronics & Communication**

**Dr. Vishwanath Karad MIT World Peace University Pune**

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**India**

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**<https://scholar.google.co.in/citations?user=gElwfXQAAAAJ&hl=en>**

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## **ACADEMIC QUALIFICATION**

- **Ph.D. (Electronics Engineering)**

July 2012 to May 2017.

Title of Research: “Performance Analysis and Optimization of Stereo Matching Techniques”

Advisor: Dr. G.N. Mulay

University: RTM Nagpur University, Nagpur.

- **M.E. (Electronics)**

November 1999 to Nov 2001.

University: Shivaji University, Kolhapur.

Thesis: “Image Compression by Multilayer Feed Forward Neural Network Trained Through Back Propagation”

- **B.E. (Electronics)**

July 1988 to 1992

University: Shivaji University, Kolhapur

Thesis: “Pick and Place Robot”

## **WORK EXPERIENCE**

- Total 28 years and 9 Month (27 years teaching + 1 year Industrial)
- Working as Associate Professor in the school of Electronics and Communication Engineering, Dr. Viswanath Karad MIT World Peace University, Kothrud, Pune
- Worked as Assistant Professor in Electronics and Telecommunication department of Maharashtra Institute of Technology, Kothrud Pune from August 2006 to June 2017.
- Worked as Lecturer in Electronics Engineering Department at Padmashree Dr. Vitthalrao Vikhe Patil College of Engineering, Vilad Ghat Ahmednagar from September 1993 to July 2004. Assistant Professor in same college from July 2004 to June 2006.
- Worked as Quality Control Engineer in “Micro controls”, Pune from June 1992 to June 1993.

## **COURSES DESIGNED IN MIT-WPU**

1. Introduction to Electronics Engineering (F.Y.Btech)
2. Electronic Devices and Circuits (S.Y.Btech(ECE))

3. Linear Integrated Circuits (S.Y.Btech(ECE))
4. Electronic Product Design (Professional Elective) T.Y.BTech(ECE)
5. Embedded Processor (T.Y.Btech(ECE))
6. Basics of Electronics and Electrical Engineering. (F.Y.BTech)
7. Embedded Processor (F.Y.MTech)
8. Embedded System design for Robotics (BTech, Robotics and Automation)

## **COURSES TAUGHT**

- **UG (B.E):** Electronic Product Design, Solid State Devices and Circuits, Digital Electronics, Microprocessor Based Systems, Analog Integrated Circuits, System Design, Computer Organization and Architecture, Electronic Devices and Circuits, Linear Integrated Circuits, Mini-projects, Capstone Projects, MTech Projects, Advanced Microprocessor, Embedded Processor, Basic Electronics Engineering, Basic Electrical Engineering.
- **PG (M.E):** Embedded Systems, Embedded System Design, Software Tools, Image Processing and Computer Vision.

## **RECOGNITION**

- Recognized UG & PG Teacher in Savitribai Phule Pune University.
- Recognized Ph.D. supervisor in MIT WPU.
- Four Ph.D Candidates in MIT-WPU
  - I. Mr. Kiran Dhanaji Kale  
Title: Ultrasound Based Bone Density Measurement
  - II. Mrs. Bhakti Amogh Paranjape  
Title: “Automatic Image Annotation Algorithm for Driver Assistance System”
  - III. Ankush Ramrao Patil
  - IV. Mr. Pravin Kumbhar

## **M.E./MTech PROJECTS GUIDED /COMPLETED FROM 2006**

- I. Miss. Shobha Kanade “Performance Tracing Tool for TI-RTOS and VxWorks”
- II. Mr. Kunal Khosala “Bone Density Measurement using Ultrasound.”
- III. Mr. Prayjit Tribhuvan “Design and Development of Smart Energy Management Scheme for SMPS used in Mobile Towers.”

- IV. Mr. Nikhil Khatavkar “Street Light controller for smart cities”
- V. Miss. Anusha Thoke “Development of I/O Expansion Module For Nexgenie 1000 PLC”
- VI. Mr. Prathmesh Pattar “Development of Quadcopter”
- VIII. Miss. Ashwini Patil “Development of Image Processing Techniques for Ultrasonic based Bed Profiler System for River Model Studies.
- IX. Miss. Pranoti Dhole” Stereo based Depth Estimation using Hardware and software Tools”.
- X. Mr. Amit Waghmare “Water Velocity measurement using contact and non-contact type sensor”.
- XI. Miss. Nitika Sharma “Video processing-based water surface velocity measurement using spatial cross-correlation techniques.
- XII. Miss. Manini Deshpande “Implementation of stereo matching using segmentation-based disparity map”.
- XIII. Rashmi Sonawane “Serial ports to Ethernet Gateway on Embedded Systems”
- XIV. Nageshwari Muthukumar “Single Cell Battery Monitoring System for underwater vehicle.

**Total Number of Publications: 17**

**Conference: 13**

**Journal: 04**

**Research Projects completed: 02**

## **PUBLICATIONS**

- I. “Measurement of Bone Density Parameters using Ultrasound and Hardware Development on bone density Measurement” International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN:2278-3075, Volume -8 Issue 10, August 2019
- II. “Quantitative Ultrasound for Investigation of Cancellous Bone Properties in Osteoporosis Management”, 7th International Conference on reliability, infocom Technologies, and optimization (ICRITO), 29-31 August 2018, Delhi, India
- III. “Design and Development of Smart Energy Management Scheme for SMPS used in Mobile Towers” International Conference on Intelligent

Computing and Control Systems (ICICCS2018)14-15 June 2018,  
Madurai, India

**978-1-5386-4692-2/18/\$31.00 ©2018 IEEE**

- IV. “Energy efficient street light controller for smart cities” International conference on Microelectronic Devices, Circuits and Systems (ICMDCS), 10-12 Aug. 2017, Vellore, India.

**Doi :10.1109/ICMDCS.2017.8211714**

Date Added to IEEE *Xplore*: 18 December 2017

ISBN Information:

Electronic ISBN: 978-1-5386-1716-8

USB ISBN: 978-1-5386-1715-1

Print on Demand (PoD) ISBN: 978-1-5386-1717-5

- V. “Implementation of CAN Communication in a PLC Network”, 3<sup>rd</sup> International Conference on Computing, communication, control, and Automation (ICCUBEA), 17<sup>th</sup> and 18<sup>th</sup> August 2017. Pune, India
- VI. “Control of Quad copter using Inertial Sensors”, SOMET 2016, Larnaca, Cyprus.
- VII. “Water Velocity measurement using contact and non-contact type sensor”, CCIS 2015, The International Conference on Communication Control and Intelligent Systems, Mathura, IEEE U.P. Section, 07 Nov - 08 Nov 2015, 978-1-4673-7541-3, pp.352 to 356.
- VIII. “Depth Map Estimation using Simulink Tool” Third International Conference on Signal Processing and Integrated Networks, SPIN -2016, Amity University, Delhi, 11-12 February 2016, IEEE Conference No:37379.
- IX. "Optimized Wireless Transmission of Stereo Images and 3-D reconstruction on Hardware" International Journal on Advances in Telecommunications (IARIA Journals), Vol. 8 , No.3 & 4, pp.98-120, December 2015
- X. “Wireless Transmission of Stereo Images and Its Disparity levels” IARIA, 2014, The Fourth International Conference on Advances in Information Mining and Management, Paris, France, ISBN: 978-1-61208-364-3, July 20, 2014 to July 24, 2014, pp. 41 - 44.

**(This paper won Best Paper Award in the conference)**

- XI. "Depth Estimation and 3-D Reconstruction on hardware Software Platform" in McGraw Hill Journal of education and Grenze Digital Library, ISBN 978-93-392-2169-0, pp.223-233.
- XII. "Stereo Matching of High-Resolution Images" International Journal of Engineering Research and Application (IJERA), ISSN 2248-9622, pp. 1-9.
- XIII. "Performance Analysis of Stereo Matching Using Segmentation Based Disparity Map", ICDT2013: The Eighth International Conference on Digital Telecommunications, 21-26, April 2013, Venice, Italy. ISSN:2308-3964

**(This paper won Best Paper Award in the conference)**

- XIV. "Surface Water Velocity Measurement Using Video Processing: A Survey "IEEE International Conference on Circuit, Power and Computing Technologies", ICCPCT-2014.
- XV. "Designing of Serial port to Ethernet Gateway on Embedded Systems" ICAEEE-2012 ,vijaywada
- XVI. "Battery Monitoring of Submarines" IJERIA, Vol.5, No. II, May 2012
- XVII. "Embedded Warning System for Vehicle Collision Avoidance" National Conference on Vehicle Safety," Transtech 2010" Tolani Marine Institute March 2010

**PATENTS**

1. "System and Method for Determining Bed Profile of River Sedimentation for River Model Studies" Patent Application No: 3897/MUM/2015.
2. "System and Method for Depth Estimation of Stereo Images" Patent Application No:2835/MUM/2014

**ADMINISTRATION(Present)**

- I. PhD coordinator, School of Electronics and Communication Engineering, MIT-WPU
- II. Core Committee Member MIT-WPU Nano Satellite team.
- III. Senior Member of PMQIC School of ECE.

#### **ADMINISTRATION(Past)**

- I. Coordinator, hardware Challenge on Swadeshi Microprocessor based design.
- II. Coordinator Aker Solutions ROV Project
- III. IQAC Co-coordinator for MITWPU.
- IV. Member of Document Verification Committee for MIT WPU Admissions
- V. SYBTech Coordinator for school of ECE MIT WPU.

#### **CONFERENCES ATTENDED**

Attended more than 50+ conferences at national and 1 at international level.

#### **PROFESSIONAL SOCIETY MEMBERSHIP:**

Life Member of ISTE, IETE

#### **RESEARCH GRANTS RECEIVED**

- I. 2 Lacs BCUD, Savitribai Phule Pune University
- II. Applied for grant of 10 lacs under DST” National Innovation Challenge for Designing and Developing Energy Storage System for Rural Households/ Establishment."

#### **INTERACTION WITH PROFESSIONAL INSTITUTIONS**

- I. Collaboration with CWPRS Khadakwasla, Pune for research projects.
- II. Recognized Examiner for M.E. Dissertation in Mumbai University.
- III. Member of IUCEE

#### **NPTEL AND OTHER ONLINE CERTIFICATE COURSES COMPLETED**

- I. Introduction to Internet of Things conducted by E & ICT Academy Kanpur.
- II. “Advanced IOT Applications” conducted by IISC Bangalore.
- III. IUCEE Course on Online Teaching

## CITATION DETAILS



Apurva Naik

FOLLOW

Associate Professor, Dr. Vishwanath Karad MIT World Peace University

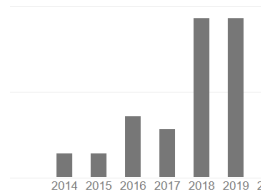
Verified email at mitwpu.edu.in - [Homepage](#)

[Embedded Systems](#) [Electronic Devices and Circ...](#) [Computer Vision](#)

<input type="checkbox"/>	TITLE		CITED BY	YEAR
<input type="checkbox"/>	<a href="#">Energy efficient street light controller for smart cities</a> N Khatavkar, AA Naik, B Kadam 2017 International conference on Microelectronic Devices, Circuits and ...		16	2017
<input type="checkbox"/>	<a href="#">Water velocity measurement using contact and non-contact type sensor</a> A Waghmare, AA Naik 2015 Communication, Control and Intelligent Systems (CCIS), 334-338		6	2015
<input type="checkbox"/>	<a href="#">Performance Analysis of Stereo Matching Using Segmentation Based Disparity Map</a> A Khaparde, A Naik, M Deshpande, S Khar, K Pandhari, M Shewale ICDT 2013: The Eighth International Conference on Digital Telecommunications		6	2013
<input type="checkbox"/>	<a href="#">Non-intrusive Water Surface Velocity Measurement Using Spatial Cross Correlation Technique</a> N Sharma, AA Naik, MS Balan 2014 International Conference on Information Technology, 356-361		3	2014
<input type="checkbox"/>	<a href="#">Surface water velocity measurement using video processing: A survey</a> M SelvaBalan, N Sharma, S Kumbhar, G Deshpande, C Kankariya, ... 2014 International Conference on Electronics and Communication Systems ...		3	2014
<input type="checkbox"/>	<a href="#">Design and development of smart energy management scheme for smps used in mobile towers</a> PP Tribhuvan, A Naik		2	2018

Cited by

	All	S
Citations	42	
h-index	3	
i10-index	1	



Co-authors

No co-authors

## HOBBIES:

Interested in reading about health and nutrition, Singing. Yoga, Attending Spiritual Programs and reading Spiritual Books.

Dr. Apurva Naik

Associate Professor

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