

Abdul Wahid Ansari

Assistant Professor , Robotics Engineering
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EXPERIENCE

Assistant Professor

Cluster Innovation center
University of Delhi, New Delhi
Aug 2014 – Present

Teaching Assistant – (Dr. Om Prakash)

Dept. of Aerospace Engineering
University of Petroleum & Energy Studies-Dehradun
Sept 2012 – May 2013

Trainer – Embedded System & Robotics

Schematic Microelectronics
Dehradun — July 2012 to April 2013

Technology Evangelist – Embedded System & Robotics

Appin Technology Lab,
Sikar, Kanyakumari, Alwar
July 2011 to June 2012

EDUCATION

University of Petroleum and energy studies, Dehradun
M. Tech in Robotics
2012 – 2014

Shekhawati Engineering College, RTU
B. Tech in Electronics & Communication,
2006 – 2010

INTERNSHIP

- Summer Research Internship(M. Tech) May,14 – June2014
Company:-University of Petroleum and energy studies, Dehradun
Title:-Design and Development of Exploration Rover
 - ✓ Arduino Platform (ATMEGA 328)
 - ✓ Control of High torque DC motor,
 - ✓ Interfacing of Accelerometer, ultrasonic Distance sensor, Laser range finder and GPS.
 - ✓ Design a prototype structure for Rover.

- In-House Training Oct. – 2013 (1 week)
Company: - University of Petroleum and energy studies, Dehradun
 - ✓ Bosch PLC
 - ✓ Controlling of Pneumatic and Hydraulic System
 - ✓ Controlling Cylinders, valves, piston and relays

- Diploma- Advance Embedded System July – Dec,2010
Company:-ISM, Bangalore
 - ✓ ARM 7(LPC Development Board)
 - ✓ I2C, CAN, RS-232, Linux device driver, AVR(ATMEGA 8,16,32), 8051

- Summer Internship(B. Tech) May – June,2009
Company:-RoboSapiens - India, New Delhi
Title:-Embedded System & Robotics
 - ✓ AVR Microcontroller (At mega 16)
 - ✓ Line Follower, Edge Avoider, Obstacle Avoider, Mobile Controlled using DTMF

PROFESSIONAL MEMBERSHIPS

- ✓ IEEE Professional Membership (Membership no:- 92468685)
- ✓ Universal Association of Computer and Electronics Engineers(UACEE) Membership-ID -SM1003689
- ✓ Manuscript reviewer of Journal of Intelligent and Robotics System (JINT, Springer).

PUBLICATIONS

- **IEEE Conference**
- **A.W. Ansari, M.Garg, S. Choudhury, R. Singh,**” ARM based Real time video streaming using XBee for perimeter control in defense application”INDIACOM-2014, ISBN 978-93-80544-11-3.

➤ **International Conference**

- M.Gupta, **A.W.Ansari**, M.Garg, “ Mathematical Morphology based gray scale Image Segmentation using improved watershed transform”, EEC – 2013, ISBN: 978-981-07-6935-2.
- S. Dubey, **A.W.Ansari**, ”Design and Development of Vehicle Anti -Collision using Electromagnet and Ultrasonic Sensors ”ICMIE-2013,ISBN- 978-93-81693-88-7.

➤ **International Journal**

- M.Garg, **A.W.Ansari**, S. Choudhury, R. Singh,R.Garg, “wireless transmission of gps values for pav’s navigation using 802.15.4b lan standard protocol, GJCST, Volume 13 Issue 17 Version 1.0, ISSN: 0975-4172, PP No. 15-20.
- M.Bhagat, **A.W.Ansari** “Face Recognition Using Featured Histogram ”ITETA, Volume 3, Issue 8,ISSN 2250 – 2459, PP No: - 142-147.

PROJECTS

- ✓ Development of Vision Navigation based Exploration Rover(**M. Tech Thesis**, 2014)
- ✓ ARM based Real Time video Streaming using XBEE.
- ✓ Mathematical Morphology based Brain tumor segmentation from MRI Images(**M. Tech Thesis**)
- ✓ Image Capturing Using Jpeg cam interfaced with ATMEGA 16 & ARM7.
- ✓ Interfacing of GSM module and Accelerometer for real time tilt measurement with ATMEGA 8 &16 and Arduino UNO
- ✓ Interfacing of Stepper, Servo and DC Motor with L293D and ULN2003 and Speed Control of Motor using PWM to ATMEGA16, ARM7& Arduino UNO.
- ✓ Hardware Design of Metal detector, Gas leakage detector and Smoke detection monitoring System.
- ✓ Hardware design & Simulation of Real time attendance System using RFID.

CO-CURRICULAR ACTIVITIES

- ✓ Technical Head, IGNITE -2013(UPES EE&I Dept. Techfest-2013).
- ✓ Participated in PATW -2014 at Delhi Local Network organized by IET,UK.
- ✓ Paper presented at M.Tech Symposium in IGNITE- 2014 at UPES.
- ✓ Presentations on Embedded System & Robotics organized by Appin at various Engineering colleges across India.

Research Interest

- ✓ Computer Vision and Machine learning, Machine Vision, Artificial Intelligence

Teaching Interest

- ✓ Microcontroller, Embedded System, Digital Electronics and Image processing.

SKILLS

- ✓ Operating Systems: Windows (98/2000/XP) Linux,
- ✓ Software Skill: MS Office,, Corel Draw11, MATLAB, Proteus, Solid Works,LABView.
- ✓ Computer Language: C, C++, Embedded C
- ✓ Platforms;- Atmel Microcontrollers, Arduino, ARM(LPC21xx),PLC.
- ✓ Coding and debugging of microprocessors with Kiel, MicroC, Avr Studio compiler.
- ✓ Embedded C programming using AVR Studio, Keil, MicroC.

I hereby declare that all the information’s provided by me are correct.

Abdul Wahid Ansari