RESUME

1. **Full Name:** Anandarup Mukherjee

2. **Organization:** Indian Institute of Technology Kharagpur

3. **Department:** School of Information Technology

4. **Roll No:** 14IT92P03

5. **Area of Research:** Aerial Networks

6. **Supervisor(s):** Dr Sudip Misra (Supervisor), Dr. N. S. Raghuwanshi (Jt. Supervisor)

7. **Sex:** Male

8. **Nationality:** Indian

9. **Date & Place of Birth:** 18th Sept. 1987, Burnpur (W. Bengal)

10. **Official Address:** Smart Wireless Applications & Networking Lab (SWAN),
    School of Information Technology,
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14. **Educational Qualifications:**

    a. **M.Tech (9.38/10):** Microelectronics & VLSI Design, WBUT, 2012
    b. **B.Tech (8.2/10):** Electronics & Communication Engg., WBUT, 2010
    c. **10+2 (72.2%):** Science, CBSE
    d. **10 (84.2%):** Science, CBSE

15. **Work Experience:**
    a. PhD Scholar (Jan 2015- Present)
    b. Senior Research Fellow, Indian Institute of Technology Kharagpur (Oct 2014- Present)
    c. Assistant Professor, University of Engineering & Management, Jaipur (June 2012 to Oct 2014)
    d. Lecturer, Institute of Engineering & Management, Kolkata, (Aug 2011- May 2012)

16. **Technical Skills:**

    a. **Simulation Platforms Used:** MATLAB, Xilinx
    b. **Software Development Platforms Used:** Android SDK, VB
    c. **Languages Known:** Python, PERL, Embedded C, JavaScript, PHP
    d. **Hardware Processors Used:** Arduino, 8051 and AVR Microcontrollers, FPGA (Spartan 3E)
    e. **Radios Used:** Zigbee, Bluetooth, GSM, GPRS, 433MHz Wireless, IR.

Professional Affiliations:

17. **Certifications:**

    a. IEEE certification on Biometric solutions for security and authentication.
    b. IEEE short term course on IPR Copyrights
    c. IEEE short term course on IPR Plagiarism
    d. IEEE short term course on IPR Trademarks
    e. IEEE short term course on IPR Patents

18. **Professional Affiliations:**

    a. Associate Member, GSTF, Singapore (Since May 2013)
    b. Member, IEEE (Since Dec 2012)
    c. Member of Editorial Board , International Journal for Scientific Research & Development (Nov. 2013)
    d. Reviewer, IEMCON 2013, Kolkata
    e. Reviewer, IEMCON 2014, Kolkata
    f. Reviewer, IEEE INDICON 2014, Pune

19. **Training & Internships:**

    a. Faculty Development Programme on "Data Mining & Machine Intelligence" at CTS, Kolkata.
    b. Short term course on VLSI Signal Processing at *IIT Kharagpur*
    c. Summer Intern at *Defence Scientific Information and Documentation Centre (DESIDOC),DRDO, N. Delhi*
    d. Intern at the *Department of Computer Science and Engineering, IIT Kharagpur*
    e. Intern at the *Centre for Electronics Test Engineering (CETE), ERTL (E), Kolkata*

20. **Theses:**

    a. Detection of Arrhythmia using Wavelet Transforms, PCA and Neural Networks (M.Tech, 2012)
    b. PC controlled robotic arm with authentication control (B.Tech, 2010)

21. **Mini Projects**

    a. Library user information retrieval using data mining
    b. Object locator in images using watersheds, segmentation and thresholds
    c. Automated traffic light controller
    d. Folder hider and locker
    e. Laser diode based intelligent visitor counter
    f. Low cost pc based e-stethoscope
    g. Intelligent car
    h. Room temperature monitor
    i. Alpha rover- Internet Controlled Robotic Car with Video Feedback
    j. Internet based home automation system

22. **Workshops Attended**

- Short Term Course on *VLSI Signal Processing* at INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, Kharagpur, India
- Workshop on *Nano- Bio- Technology* at INTERNTIONAL INSTITUTE OF INFORMATION TECHNOLOGY, Pune, India
- Participant in "Robotix" at *KSHITIJ* at INDIAN INSTITUTE OF TECHNOLOGY KHARGPUR, Kharagpur, India
- Faculty Development Programme (Data Mining, Data Warehousing and Business Intelligence) at *Cognizant Technological Solutions (CTS),* Kolkata, India.

Professional Affiliations:

23. **Research Interests:**

   a.   Wireless Sensor Networks
   b.   Embedded Systems
   c.   Biomedical Signal Processing
   d.   Statistical Analysis

24. **Articles:**

   1) **A.Mukherjee**, S. Goswami, "Visualizing Graphs using PAJEK",*PC Quest,* Enterprise Solutions, Nov. 2010.
   2) **A. Mukherjee,**"Creating VB Macros in MS Word",*PC Quest*, Developer, Dec. 2010.
   3) **A. Mukherjee,**"Folder Manipulator in VB 6.0",*Electronics for You,* ISSN No. : 0013- 516x, Sep. 2011.
   4) N.Pathak, **A. Mukherjee**, "NANOENGINEER- A Virtual Nanotechnology Lab", *PC Quest*, Hands On, Apr. 2013

25. **Journal Papers:**

   1) S Goswami, S Misra, C Taneja, **A. Mukherjee**, " **Design and Implementation Analysis of a Public Key Infrastructure- enabled Security Framework for Zigbee Sensor Networks**", International Journal of Communication Systems, Int. J. Commun. Syst. (2014), Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/dac.2893, Nov 2014.
   Link: http://onlinelibrary.wiley.com/enhanced/doi/10.1002/dac.2893

   2) S. Goswami, **A. Mukherjee**, A. Gupta, M. Kharbanda, P. Soni. "**Visualization of Relationship among Library Users based on Circulation Data**". *Defence Scientific Information and Documentation Centre Journal of Library and Information Technology (DJLIT).* Vol. 30, No. 2, ISSN No. : 0974-0643. March 2010.
   Link: http://publications.drdo.gov.in/ojs/index.php/djlit/article/view/5

26. **Conference Papers:**

   1) S Goswami, S Misra, C Taneja, **A. Mukherjee**, "**Securing Intra-communication in 6LoWPAN: A PKI Integrated Scheme**", Advanced Networks and Telecommuncations Systems (ANTS), 2014 IEEE International Conference on , vol., no., pp.1,5, 14-17 Dec. 2014, doi: 10.1109/ANTS.2014.7057265.
   Link:
   http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=7057265&queryText%3DSecuring+Intra-communication+in+6LoWPAN%3A+A+PKI+Integrated+Scheme%E2%80%9D%2C

   2) **A. Mukherjee**, K. K. Ghosh, "**A Noise Independent Approach to QRS- Complex Detection Using CWT**", *International Conference on Informatics, Electronics and Vision*. Dhaka, Bangladesh. 18- 19 May 2013 (*Digital Object Identifier:* 10.1109/ICIEV.2013.6572722), p. 1-5, 2013.
   Link:
   http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6572722&queryText%3DA+Noise+Independent+Approach+to+QRS-+Complex+Detection+Using+CWT

   3) **A. Mukherjee**, K. K. Ghosh. "**An Efficient Wavelet Analysis for ECG Signal Processing**" in 2012 *International Conference on Informatics, Electronics and Vision*. Dhaka, Bangladesh. 18- 19 May 2012, IEEE Xplore (*Digital Object Identifier: 10.1109/ICIEV.2012.6317419*), p. 411-415, 2012.
   Link:
   http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6317419&queryText%3DAn+Efficient+Wavelet+Analysis+for+ECG+Signal+Processing

Professional Affiliations: