Curriculum Vitae   **Mukesh Tiwari**

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Objective

To obtain a challenging and competitive job where I can apply my technical and analytical skills to gain valuable insights and experience in the varied areas of my interest.

Academics

- Integrated Post Graduate (IPG) Programme [B.Tech + M.Tech] in Indian Institute of Information Technology and Management (IIITM),Gwalior *(2004-09)*
  CGPA: 7.36/ 10.00.
- Senior Secondary (State Board) from N. P. Inter College, Mughalsarai (Varanasi), Uttar Pradesh. Percentage: 70%.
- Higher Secondary (State Board) from N. P. Inter college, Mughalsarai (Varanasi), Uttar Pradesh. Percentage: 62%.

Skill Set

- Operating Systems   Windows, Linux
- Programming Languages   C,C++, Core Java, Python, Haskell
- Packages   MATLAB, Microsoft Visual Studio, openGL

Areas of Interest

- Algorithms and Software Development
- Cryptography and Network Security
- Problems solving in C/C++

Publication

- Paper titled "**Designing Intrusion Detection system to Detect Black Hole and Selective Forwarding Attack in WSN based on Local Information**" selected at International Conference on Computer Science and Convergence Information Technology (ICCIT 2009) Seoul, South Korea.
- Paper titled " **Performance Evaluation of SCTP-Sec A secure SCTP mechanism**" selected at International Conference on Computer Science and Convergence Information Technology (ICCIT 2009) Seoul, South Korea.
- Paper titled "**A Novel Approach to Detect and track the Mobile Objects in Video**" selected at ACM sponsored International Conference on Advances in Computing 2008 Chikhli, India.

Mater Thesis

Developed Intrusion Detection System for Wireless Sensor Network based on clustering and specification based probabilistic content analysis of network.
Project Guide: Dr. K.V. Arya
Technologies used: C++

Tools used: Qualnet

Career Experience

National Technical Research Organization (NTRO) (2009-Present).
Currently working as Technical Assistant-'A' in NTRO Kolkata.

Summer Internship at Arcelor Mittal, R&D Technological Centre, Avilés – Spain
Work on various buisness process to optimize and schedlue them in the given constraints.
Project Guide: Diego Díaz Fidalgo (Research Engineer, R&D Technological Centre - KIN (CDT))
Technologies used: C#
Tools used: LINGO

Projects Undertaken and Experience

Project Title: Encrypted Mail System
Developed encrypted mail system to add extra layer of security in case of hacked mail server. I implemented RSA encryption system and used java Send Mail API.
Technology used: Java

Project Title: Moving Object Tracking (B.Tech Dissertation)
To compare Different Techniques for Detecting and Tracking Moving Objects. In this project we have tested three techniques for detecting and tracking moving object in videos the three techniques were SIFT algorithm, EDGE detection and DIFFERENCE method correlation and image energy difference method. The different results were compared and we proposed a new way of tracking objects.
Project Guide: Prof. Mahua Bhattacharya, IIITM Gwalior.
Tools used: MATLAB

Project Title: Software Engineering Project: Classroom Scheduling System.
The Classroom Scheduling System (CSS) has been developed to schedule the classes to the available rooms based on the class strength and the class timing.CSS is a web based integrated solution.
Project Guide: Prof. D.K.Saini (BITS Pilani)
Technologies used: Linux as a platform, Apache as Web Server, Perl for CGI, MySQL as database

Project Title: Implementing Basic Graphics and Animation
Different 2D and 3D objects were created using Visual C++ and standard openGL platform. Glut library and its library function was used to produce custom based animated models.
Project Guide: Prof. R.S. Jadon
Technologies used: openGL, gcc.

Project Title: System Analysis and Design Project: **e-Notice**
Developed a web based integrated tool for IIITM as a notice board.
Project Guide: Prof. Rakesh Srivastava (IIITM Gwalior)
Technologies used: Linux as a platform, PHP, MySQL.

Project Title: Simulation of networking protocols
Simulated Sliding Window Protocol, Go Back N and Selective Repeat.
Project Guide: Prof. Shashikala Tapaswi
Technologies used: Linux as a platform, JavaScript.

Achievements

- **2nd rank** in **Code Weavers**(Programming contest) in **INFOTSAV-06**(ABV-IIITM annual Tech Fest)
- Winner of **Simula**(Business simulation game) in **INFOTSAV-06**(ABV-IIITM annual Tech Fest)
- **2nd rank** in **Segmentation Fault** (debugging contest) in **Effervescene-06**(IIIT Allahabad Annual Tech Fest)
- **2nd rank** in **Akraman**(Hacking contest) in **INFOTSAV-07**
- Represented ABV-IIITM, Gwalior in **ACM International** Collegiate Programming Contest -06 Asia regional's Kanpur site.
- Represented ABV-IIITM, Gwalior in **ACM International** Collegiate Programming Contest -07 Asia regional's Amritapuri site. Our team was **ranked 25th** out of 56 teams.
- **Currently in level 4** in Project Euler out of 109086 users. The website(http://projecteuler.net) has problems which are aimed at inspiring user to extract maximum use of computational methods in solving mathematical and number theoretic problems. I have solved around 164 problems out of 300.
- **World rank of 1996 in ACM** Uva Online Judge out of 71155 users. I have solved more 200 problems in this website which are taken from ACM ICPC and various other public programming contests.
- World rank 739 in Sphere Online Judge. I have solved 130 problems on this websites. Problems are taken from various programming contests (https://www.spoj.pl/users/mukesh_iiitm).
- **27th Rank** (10th in India) in **IOPC 2007**(IIT Kanpur Annual Online Programming Contest).
- **59th Rank** (13th in India) in **CodeCraft** '08 is the annual **ONLINE** programming contest conducted by IIT Hyderabad with team name fcoders.
- Secured **7th Rank** in Wild Card entry round in **The Overnite ACM ICPC 2008 Multi Provincial Programming Contest** and **13th Rank** in final round conducted by **IIT Kharagpur**.

Personal Details

Name: Mukesh Tiwari

Date of Birth: 21/07/1984

Sex: Male

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