

**SAROJ HIRANWAL**

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**D.O.B:** 20<sup>th</sup> Jan, 1982, **Mobile:** +91-9887060845

**Present Add:** H.No-127/128A, 21 South, Niwaru Road, Jhotwara, Jaipur-302012



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**To work with an organization where I can prove my abilities. My aim is to grow with the organization and contributes fullest on my part in the achievement of organization goals.**

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## **Education Highlights**

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- **Ph.D\* (Computer Science and Engineering)** from **Suresh Gyan Vihar University, Jaipur**
- **M.Tech (Information Technology)** from **AAI-DU, Allahabad** in 2006 with 71%.
- **B.E. (Information Technology)** from **Mody College of Engineering & Technology, Laxmangarh,** with **HONS (71%)** (Affiliated to Rajasthan University, Jaipur) in 2004.
- **Sr. Secondary with 66%** from Rajasthan Board, Ajmer in 1999.
- **Secondary with 70.55%** from Rajasthan Board, Ajmer in 1997

## **Works Expériences**

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### **Sri Balaij College of Engineering & Technology, jaipur**

**Duration:** July 06 to till Date

**Designation:** Associate Professor

**Job Profile:** HOD IT, MTech (CSE Head)

### **BSP Informatics Pvt. Ltd**

**Duration:** July 04 to May 06

**Designation:** Programmer

**Job Profile:** Software Developer

## **Technical Skills**

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- **Subjects of interest :** Operating System, Real Time System, Java, C++,Discrete Mathematics Structure, Software Engineering
  - **Languages:** C,C++, Core Java, HTML, Shell Programming/W Programming ,Introduction of VC++
  - **Tools:** Visual basic6.0, ASP.Net
  - **Database:** Ms Access, SQL server, Tally, MS-Excel
  - **Operating System:** WINDOWS 2008/ME/XP, Linux (Red Hat, Mandrake)
  - **Hardware:** Computer assembling, installations, and maintenance.
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## Technical Trainings

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- **GUI to Image Processor** underwent at **CEERI, Pilani**.
- **Digital Design Using VHDL** underwent at **CEERI, Pilani**.

## Project Undertaken

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- B.Tech. Project on **Telephone Billing System** in **VB6.0 & MS-Access**.
- B.Tech. Minor Project on **8-bit CPU Design using VHDL**.
- B.Tech. Major Project on **8085 Microprocessor made simple using C**.
- M.Tech Project on **“Continuous Evolution Process”** Using **“ASP.NET”**.

## Thesis supervisez

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- Performance Analysis of LRU and an Enhanced Technique to Decrease Page Fault Rate and Cache Pollution
- “The Novel Heuristic based Approach For Coverage And Connectivity Problems in Wireless Sensor Networks”
- Analysis of IEEE 802.11e for QOS support and Enhancing the Transmission Efficiency of voice packets for VOIP over Wireless LAN’s
- “Cluster Identification and Outlier Detection in Distributed data”

## Conférences/Workshop/Publications/Book Published

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- Participated in faculty development program on **SYSTEM ON CHIP** at **MNIT, Jaipur**
- Participated in Short Term Training Program on Server Side Programming at **National Institute Technology, Kurukshetra** from **3-12-2007 to 7-12-2007**
- Participated in Short Term Course under Quality Improvement programme on **TEACHING COMPUTER GRAPHICS** at **Indian Institute of Technology(IIT), Delhi** from **14-25 June 2010**
- Participated in Training Program For Young Leaders (Policy For Information And Communication Technology) at the **Japan Overseas Cooperation Association(JOCA)**

organized by **Japan International Cooperation Agency(JICA),Tokyo, Japan** from 26 January 2011 to 11 February 2011 under the international cooperation program of the Government of Japan

- Presented & published a paper on “ **Computer and Information Security**” in the national conference on **futuristic computer application (FCA 2009)** organized by the department of IT in collaboration with Department of CSE, Institute of Technology and Management, Gwalior during 26-27 Oct. 2009.
- Presented & published a paper on “**Real Time Operating System**” in the national conference on **IT in Global World: A Futuristic Perspective** on 19-20 dec 2009 organized by Biyani Girls College, Jaipur.
- Presented & published a paper on “**A Component Based modeling Approach for Improving S/W Quality**” in the national conference on Emerging Trends in Information & Technology held on 13 Feb, 2010 organized S. S. Jain Subodh PG College and Sponsored by UGC.
- Presented & published a paper on “**Nano Sensors**” in the national conference on **Recent Trends in IT: Opportunities and challenges** on 26-27 Feb, 2010 organized S. S. Jain Subodh PG College and Sponsored by UGC.
- Presented & published a paper on “**Maximizing Life Time Problem in Wireless Sensor Network**” in the national conference on **Recent Trends in IT: Opportunities and challenges** on 26-27 Feb, 2010 organized S. S. Jain Subodh PG College and Sponsored by UGC.
- Presented a paper on “**Modified Subset Sum over RSA Public Key Crypto System**” in the national conference on **Convergence of Broadcast & Communication Technology** on 6 March, 2010 organized at SKIT, Jaipur Sponsored by ISTE, New Delhi.
- Presented a paper on “**Data ware House Quality Matrix**” in the national conference on **Next Generation Computing** on 20 March, 2010 organized by Gurgaon Institute of Technology & Management, Gurgaon.
- Presented and published a paper on “**Wireless Sensor Networks**” in the national seminar on **Modern Trends & Techniques in Computing (March 30, 2010)** organized by Jaipur National University, Jaipur.
- Attended a national conference on **Recent Innovative in Computer Science** held at Arya College of Engineering. And IT, Jaipur on 5-6 Feb, 2010.

- Presented and published a paper on **“Real Time Operating System”** in the International conference on Emerging Trends in Engineering and **Technology, November 26-27,2010** organized by Biyani International Institute of Engineering and Technology, Jaipur.
- Presented and published a paper on **“A Novel Approach for Performance Enhancement of Next Generation Web Service”** in the national conference on **Web Services, Computing and Communication Technology, April 15-16,2011** organized by YAGYAVALKYA INSTITUTE OF TECHNOLOGY, Jaipur in association with Computer Society of India ,Chennai and Indian Society for Technical Education, new Delhi.
- Presented and published a paper on **“A Novel Heuristic Based Approach to Coverage and Connectivity Problems in Wireless Sensor Networks”** in the national conference on **Web Services, Computing and Communication Technology, April 15-16,2011** organized by YAGYAVALKYA INSTITUTE OF TECHNOLOGY, Jaipur in association with Computer Society of India ,Chennai and Indian Society for Technical Education, new Delhi.
- Presented and published a paper on **“Performance Analysis of Round robin Scheduling using Novel Approach”** in the **International conference** on management perspectives **Emerging Trends and Leadership Challenges, March 24-25, 2011** organized by AMITY UNIVERSITY RAJASTHAN, Jaipur .
- Published a paper on **“Performance Analysis of LRU and Enhanced Technique to Decrease Page fault Rate”** in the 2<sup>nd</sup> **International conference** on Emerging Trends of Engineering and Technology (IETET-2010) , **October 20-22,2010** organized by Geeta Institute of Management and Technology ,kurukshetra (Haryana) .
- Published paper on **“Performance Enhancement of Software Process Models”v2-384** 2010 2nd International Conference on Software Technology and Engineering (ICSTE 2010) **held on 3-5 October 2010, San Juan, Puerto Rico, USA** sponsored by Institute of Electrical and Electronics Engineers ( IEEE ) ISBN 9781424486670 Prod# CFP1030L-PRT pages 859 volume 2 publisher Institute of Electrical and Electronics Engineers ( IEEE )
- Published book on **“Information Protection & Security System”**, according to RTU Syllabus for IT (VII Sem) and CSE (VIII Sem), College House Book.
- Published book on **“Operating System“**, according to RTU Syllabus for IT , CSE ,ECE and MCA, Science and Technology Publications, Jaipur
- Attended a 10 days Orientation Program organized by **Department of Education, Govt. of Rajasthan** & sponsored by Ministry of Youth Affairs and Sports, Govt. of India.
- Attended a 5 days Orientation Program organized by **Department of Education, Govt. of Rajasthan** & sponsored by Ministry of Youth Affairs and Sports, Govt. of India.

- Research paper “**Adaptive Round Robin Scheduling using Shortest Burst Approach Based on Smart Time Slice**” has accepted for publication in journal "*International Journal of Advanced Computer Engineering*” This paper will be published in No.1 (2011) issue of serials publication.
- Research paper Titled “**Adaptive Round Robin Scheduling using Shortest Burst Approach Based on Smart Time Slice**” has been published in **International Journal of Computer Science and Communication Vol-II, Issue-II (ISSN: 0973-7391)** after the review reports of three reviewers.
- Research paper Titled “**A Novel Round Robin CPU Scheduling using Shortest Burst Approach based on Smart Time Slice**” has been published in **Global Journal of Computational Intelligence Research Volume 1, Number 2 (2011) PP.149-158 (ISSN 2249-0000)**
- Paper published in **Oriental Journal of Computer Science and Technology of International Journal of Data Engineering (IJDE)**, entitle.”**CIODD: Cluster Identification and Outlier Detection in Distributed data.**” Volume 4 No. 1 29-39 June 2011, ISSN : 0974-6471, May issues, 2011
- Participated in **Training of Trainer in Civics, Citizenship and Life skills** at Junagadh Agriculture University, Junagadh (Gujarat) from 25 July 2011 to 29 July 2011 sponsored by Govt. of India.
- A paper on "**Character Taking out, Identification and Number Plate Recognition**" published in "**International Journal of Electronics and Computer Science Engineering**" ISSN: 2277-1956, Volume 1 Number 3, PP-840-844
- A paper published in **International Journal of Advances in Engineering and Technology**, entitle “**A NEW VARIANT OF SUBSET-SUM CRYPTOSYSTEM OVER RSA**” ISSN:22311963 EIssn: Year:2012 Volume:2 Issue:1 pages/rec.No:90-97
- A paper on “**A Novel Round Robin CPU Scheduling using Shortest Burst Approach**” presented in National Conference on “Recent Trends in Information and Communication Technology RTICT2011” held on 16-17 September 2011, sponsored by IEEE MTTT, IETE.
- A paper on “**Enhancement in Round Robin CPU Scheduling using Shortest Burst Approach**” Presented in **7th Biyani International Conference on “Techno Global Issues: Expansion, impacts and challenges”** 18 September 2012.

- A paper on “An xml based dynamic data integrity audit service in cloud “ published in International Journal of Societal Applications of Computer Science Vol 2 Issue 4 April 2013 ISSN 2319 – 8443

## Curricular Achèvements

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- **Coordinator** of National Conference on “Recent Trends in Information and communication Technology RTICT2011” will be held on 16-17 September 2011, sponsored by IEEE MTTs,IETE.
- Participated in TRAINING PROGRAM FOR YOUNG LEADERS (POLICY FOR INFORMATION AND COMMUNICATION TECHNOLOGY) at the Japan Overseas Cooperation Association(JOCA) organized by **Japan International Cooperation Agency(JICA),Tokyo, Japan** from 26 January 2011 to 11 February 2011 under the international cooperation program of the Government of Japan.
- **NBA Coordinator for the college.**
- **Coordinated M.Tech Department in the college.**
- Mid Term Examination Controller of the college.
- Convener of Examination.
- **Convener** of 2 days workshop on “**Rural Development and Youth**” fully sponsored by Commissioner College Education Jaipur , Govt. of India held on 13-14 December 2010
- **Convener** of 2 days workshop on “**Communal Harmony and National Integrity for youth**” sponsored by Commissioner College Education Jaipur , Govt. of India held on February 2011
- **Convener** of 2 days **National level TECH-FEST DAKSH-09 and DAKSH-10** Organized by CSE and IT Department of SBCET,JAIPUR
- Conducted 3 days National level TECH-FEST MANTHAN-09 and MANTHAN-10 Organized by SBCET,JAIPUR
- Working as proctor in college for 4 years.
- National service scheme **Program Officer** for 4 years.
- Worked as Hostel warden for 3 years
- Paper setter for B.Tech and M.Tech at RTU(Rajasthan Technical University) and other universities.
- External Examiner appointment from RTU for UG and PG Courses  
An active participant in cultural and literary activities etc held in collage.
- Got RPET rank 23
- Participated in Relay Race at National level.
- Participated in various school ceremonies like Annual Day, Independence Day etc.

**Declaration:**

I hereby declare that, all the above statements are true to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read 'SAROJ HIRANWAL', with a vertical line crossing through it.

**DATE:** April 25, 2013

**SAROJ HIRANWAL**