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## *Curriculum Vitae*

### **HIMANSHU JINDAL**

#### **Career Objective:**

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To take up a career that provides me with responsibilities which commensurate with my skills and knowledge, thereby helping me to add value to the organization, enhance my growth and conceptual skills and motivates me to move ahead faster on learning curve.

#### **Key Functional Areas**

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- **Specialization Area:** Wireless Sensor Networks, Image Processing, Internet-of-Things.
- Skilled in C/C++, SQL, PL/SQL, Java, HTML, Asp.Net with C#, Arduino IDE, LATEX, MATLAB.
- Knowledge and training of basic concepts in Software Engineering including feasibility analysis, requirement analysis, designing, coding, testing, implementation & maintenance.

#### **Educational Qualification**

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Degree	University/Board	CGPA Marks (10 point scale)	Year of passing
Doctor of Philosophy	Thapar Institute of Engineering and Technology	8.95	2019
Masters in Technology (Computer Science & Applications)	Thapar University	8.45 (part time)	2014

Degree	University/Board	Aggregate % Marks	Year of passing
Bachelor in Technology (Computer Science & Engineering)	Punjab Technical University	75	2011
XII	P.S.E.B	62	2007
X	P.S.E.B	82	2005

## **Training**

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1. Certified in Core Java from Educational Society of Technical Studies, Patiala.
2. Certified in Asp.Net with C# from Master Vision InfoTech Pvt Ltd, Mohali.

## **Research and Development (R & D)**

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1. **Multi-Parametric Sensor:** A multi-parametric sensor is used for measuring contamination in river water. The sensor sends the sensed values to smartphone or PC *via* Bluetooth. The sensor is programmed with Arduino board and IDE.
2. **Image Sensor:** The sensor is used to capture images of surroundings to take timely preventive measurements against any unusual activity. The sensor is used for applications like pipeline monitoring underwater or surveillance monitoring. The sensor is programmed using Arduino IDE and Java.

## **Projects Undertaken**

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1. **The Test Master:** The test master is a complete students' companion as well as provider of flexibility to teachers in an organization. It allows students to apply for tests online by providing them special codes given by the teachers. It helps teachers in conducting online tests. This project was developed using Applets, Swings, Java, SQL Server and JDBC.
2. **E-Shopping for Mobile Phones:** It allows online shopping of mobile phones. It provides flexibility to the user to select mobile phones according to company and cost. Once the user selects particular mobile link, it displays detailed specification of mobile. Hence user can shop online for his/her required mobile phone.
3. **HasratJob.com:** It allows users to register on sites and find preferable jobs through this website. It also allows job providers to register on site so that users can apply or search for their companies and apply for it. The project was developed using Asp.net, C# and SQL Server.

## **Experience**

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- Working as Teaching Associate in Computer Science Engineering Department, Thapar University, Patiala from July, 2015 to present.
- Worked 1 year and 10 months as a lecturer in CSE Department in Rayat Bahra Group of Institutes, Patiala Campus from September, 2012 to July, 2014.
- Worked 1 year as a lecturer (guest faculty) in Thapar Polytechnic College, Patiala from August, 2011 to September 2012.

## Subjects Taught at Post-Graduate Level

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- Fundamentals of C Programming
- Information Security and Cryptography

## Subject Taught at Graduate Level

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- Engineering Design (Arduino Programming and Buggy)
- Object Oriented Programming using C++
- Web Technologies
- Computer Graphics
- Fundamentals of Computer Programming & Information Technology
- Data Structures

## Papers Published in SCI/SCIE Journals

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1. **Himanshu Jindal**, Singara Singh Kasana, Sharad Saxena, “Ridgelet based Fusion Technique for Panoramic Underwater Image Refinement” *Scientia Iranica: An International Journal of Science and Technology*, 2017. **I.F. 1.025 (In Press)**.
2. **Himanshu Jindal**, Singara Singh Kasana, Sharad Saxena, “Underwater Pipelines Panoramic Image Transmission and Refinement using Acoustic Sensors”, *International Journal of Wavelets, Multiresolution and Information Processing*, Vol. 16, No. 3, pp. 1850013-1 – 1850013-37, 2018. **(World Scientific) I.F. 0.6**.
3. **Himanshu Jindal**, Sharad Saxena, Singara Singh Kasana, “Triangular Pyramidal Topology to Measure Temporal and Spatial Variations in Shallow River Water using Ad-hoc Sensors Network” *Ad Hoc and Sensor Wireless Networks Journal*, Vol. 39, No. 1-4, pp. 1-35, 2017. **(Old City Publishing) I.F. 1.034**.
4. **Himanshu Jindal**, Sharad Saxena, Singara Singh Kasana, “A Sustainable Multi-Parametric Sensors Network Topology for River Water Quality Monitoring”, *Wireless Networks*, pp. 1-27, 2017. DOI: 10.1007/s11276-017-1532-z **(Springer) I.F. 1.584**.
5. **Himanshu Jindal**, Sharad Saxena, Singara Singh Kasana, “Sewage Water Quality Monitoring Framework Using Multi-parametric Sensors”, *Wireless Personal Communications*, Vol. 97, No. 1, pp. 881-913, 2017. DOI: 10.1007/s11277-017-4542-3 **(Springer) I.F. 0.951**.

## Papers Published in Non-SCI Journals

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1. Kuldeep Mander, **Himanshu Jindal**, “An Improved Image Compression Decompression Technique using Block Truncation and Wavelets”, *International Journal of Image, Graphics and Signal Processing (IJIGSP)*, Vol. 9, No. 8, pp. 17-29, 2017 **(MECS)**.
2. Sandeep Kaur, **Himanshu Jindal**, “Enhanced Image Watermarking Technique using Wavelets and Interpolation”, *International Journal of Image, Graphics and Signal Processing (IJIGSP)*, Vol. 9, No. 7, pp. 23-35, 2017 **(MECS)**.

3. Archie Mittal, **Himanshu Jindal**, “Novelty in Image Reconstruction using DWT and CLAHE”, *International Journal of Image, Graphics and Signal Processing (IJIGSP)*, Vol. 5, No. 9, pp. 28-34, 2017 (**MECS**).
4. Shiva Mehta, Kamaljeet Mangat, **Himanshu Jindal**, “Procreation of Hierarchical Routing using AODV”, *International Journal of Engineering Research in Computer Science and Engineering*, Vol. 2, No. 8, pp. 47-50, 2015.

## **Papers Published in Conferences**

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1. **Himanshu Jindal**, Singara Singh Kasana, Sharad Saxena, “A Noval Image Zooming Technique using Wavelet Coefficients”, in Proceedings of *International Conference on Recent Cognizance in Wireless Communication and Image Processing (ICRCWIP2014)*, pp. 1-7, 2016. DOI: 10.1007/978-81-322-2638-3 (**Springer**).
2. Ghanshyam Mourya, **Himanshu Jindal**, Sharad Saxena, “Software Perspective to Underwater Acoustic Sensors Network” in Proceedings of *International Conference on Next Generation Computing Technologies (NGCT-2015)*, pp. 187-191, 2015. DOI: 10.1109/NGCT.2015.7375109 (**IEEE**).
3. **Himanshu Jindal**, Sharad Saxena, Singara Singh, “Challenges and Issues in Underwater Acoustics Sensor Networks: A Review”, in Proceedings of *International Conference on Parallel, Distributed and Grid Computing (PDGC-2014)*, pp. 251-255, 2014. DOI: 10.1109/PDGC.2014.7030751 (**IEEE**).
4. Sharad Saxena, Deepak Mehta, Jasminder Kaur, **Himanshu Jindal**, “Acoustic Communication Characteristics in UWDBCSN”, in Proceedings of *International Conference on Parallel, Distributed and Grid Computing (PDGC-2014)*, pp. 176-180, 2014. DOI: 10.1109/PDGC.2014.7030737 (**IEEE**).

## **Papers Presented**

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1. Presented paper titled “Ad-Hoc Networks: An Evolution” in National Conference on Emerging Innovations in Business and Technology, April 2013.
2. Presented paper titled “A Literature on Computer Networks” in National Conference on Emerging Innovations in Business and Technology, April 2013.

## **Workshops and Conferences Attended**

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- Attended International Conference on “Smart Technologies in Computer and Communication (SmartTech-2017)” held at Amity University, Rajasthan, March 2017.
- Attended workshop on “IoT-Internet of Things” held at Thapar University, Patiala, April, 2016.
- Attended workshop on “Fuzzy Sets, Fuzzy Logic and its Applications in Big Data Analytics” held at Thapar University, Patiala, April, 2016.

- Attended Global Initiative of Academic Networks (GIAN) workshop on “Smart Sensors and Internet of Things (IoT)” held at Jamia Milia Islamia Central University, New Delhi, March 2016.

## **Extra-Curricular Activities**

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- Participated two times in AICTE recognized short term course on Induction Training Programme through ICT, conducted by NITTR, Chandigarh held in Rayat Bahra Group of Institutes, Patiala, Punjab.
- Participated in Group Discussion and Quiz Mania in technical fest named “Armageddon 5.0”, held in Bhai Gurdas Institute of Engineering and Technology, Sangrur, Punjab.
- Active Coordinator for organizing workshops on “Web-Designing” and “Cellular World”, in technical fest named “Praudyogikii’ 10”, held at Chitkara Institute of Engineering and Technology, Rajpura, Punjab.
- Attended Task Systems’ workshops on “Web Designing” and “Cellular World”, in technical fest named “Praudyogikii’ 10”, held at Chitkara Institute of Engineering and Technology, Rajpura, Punjab.
- Attended workshop of Microsoft Dream Spark Yatra, Chandigarh.
- Attended Computer workshop during technical fest named “Panache-2010”, held at Shaheed Udham Singh Group of Institutions, Tangori, Mohali, Punjab.
- Participated two times in Basketball at district level in 2006-07 and 2004-05.
- Awarded best student of the year in 2007.
- Awarded all-rounder student of the year and most well behaved student of the year in 2005.
- Got second (2<sup>nd</sup>) position in Football at inter-school tournament, 2004-05.
- Participated actively in blood donation camps (7 times) and activities concerning humanities.

## **Personal Profile**

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Date of Birth	:	19 <sup>th</sup> Jan 1989
Sex	:	Male
Place	:	Patiala
Marital Status	:	Unmarried