

# Curriculum Vitae

Name : Shashi Bhushan

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## OBJECTIVE

To be a successful professional in a Globally Respected Organization and to achieve the objectives of the organization with honesty and fairness and to continuously upgrade my knowledge and skills.

## ACADEMIC QUALIFICATION

Year	Course	Name of Board/University	%age	Division
2015	M.E Specialization in Computer Network	Chandigarh University	72.8	1st
2013	B.Tech	Himachal Pradesh University	76.15	1st
2008	XII	HPBOSE	80.20	1st
2006	X	HPBOSE	78.85	1st

## CORE MANAGEMENT COMPETENCIES

- Quick learner.
- Dedicated towards work.
- Self Motivating.

## ME DISSERTATION

TITLE	DESCRIPTION
AN INTELLIGENT SPECTRUM HANDOFF IN COGNITIVE RADIO NETWORK BY USING GAME THEORETICAL APPROACH	Cognitive radio (CR) networks have been proposed as a solution to both spectrum inefficiency and spectrum scarcity problems. However, they face several challenges based on the fluctuating nature of the available spectrum, making it more difficult to support seamless communications, especially in CR cellular networks. In this research work, a spectrum-aware mobility management scheme is proposed for CR cellular networks. First, novel network architecture is introduced to mitigate heterogeneous spectrum availability. Based on this architecture, a unified mobility management framework is developed to support diverse mobility events in CR networks, which consist of spectrum mobility management, user mobility management and inter-cell resource allocation. The spectrum mobility management scheme determines a target cell and spectrum band for CR users adaptively dependent on time-varying spectrum opportunities, leading to increase in cell capacity. In the user mobility management scheme, a mobile user selects a proper handoff mechanism so as to minimize a switching latency at the cell boundary by considering spatially heterogeneous spectrum availability. Simulation results show that the proposed method can achieve better performance than conventional handoff schemes in terms of both cell capacity as well as mobility support in communications. Simulation Tool: ns3

## ME PROJECTS

<b>SEMESTER</b>	<b>TITLE</b>	<b>DESCRIPTION</b>
3 <sup>rd</sup>	Disaster Management In Flying Ad hoc Network	<p>During the previous decades a lot of work has been done on UAVs due to advancement in the electronics, sensor fields which makes UAVs less costly. To cope with the problem of disaster recovery efficiently there is a need to use an intelligent and sophisticated technology called flying ad hoc network which can provide recovery help in time through communication and coordination between UAVs. Flying ad-hoc network technology is explored and its various applications and advantages are discussed. In this project we also compare its simulation results with the traditional ad hoc networks like MANET and VANET.</p> <p>Simulation Tool: NS2</p>
2 <sup>nd</sup>	Wireless Mesh Network	<p>A wireless mesh network is a communications network made up of radio nodes organized in a mesh topology. It is also a form of wireless ad hoc network. Wireless mesh networks often consist of mesh clients, mesh routers and gateways. In this project initially we learn creation of simulation nodes and communication between these nodes. After that we applied lot of networking routing protocols and compared the outcomes of these routing protocols.</p> <p>Simulation Tool: NS2</p>

## INTERNSHIP

<b>DURATION</b>	<b>TITLE</b>	<b>DESCRIPTION</b>
6 weeks	Core java	SLR INFOTECH PVT. LTD. CHANDIGARH
4 weeks	ASP.NET	DOAECC SHIMLA
6 weeks	Computer Network	INFORMATION DEPARTMENT (SHIMLA)

## PUBLICATIONS

- Communicated in IEEE Sep 2015, "Spectrum Handoff in Cognitive Radio Networking Using Dynamic Threshold".

## ACHEDMIC AWARD AND CO-CURRICULAR ACTIVITIES

- Participated in National Level Badminton Championship.
- Secured 1<sup>st</sup> position in District. Badminton Championship.
- Sun learning services course in sun java programming language
- Secured 97<sup>th</sup> rank in 10<sup>th</sup> class across whole Himachal Pradesh.
- Secured 81<sup>th</sup> rank in 12<sup>th</sup> class across whole Himachal Pradesh.

## SEMINAR PRESENTED AND ATTENDED

- Presented “Introduction of wireless Network” during 1st semester of M.E in Chandigarh University.
- Presented “Flying Ad hoc Network and its Applications” during 2nd Semester of M.E in Chandigarh University.
- Presented “Cognitive Radio Network and its application” during 3rd Semester of M.E in Chandigarh University.
- Attended “Natural Language Processing” by Dr. Gurpreet Singh Lehl of Punjabi University, Patiala at Chandigarh University.
- Attended “Introduction to Biometrics using Mat lab” by Dr. Amandeep Kaur of Punjabi University, Patiala at Chandigarh University.
- Attended “Project Management” by Dr. Seema Bawa of Thapar University, Patiala at Chandigarh University.

## COMPUTER SKILLS

- Programming Languages : C, C++, Java, .NET
- Operating systems : Windows XP, VISTA, Windows 7, Window 8, Linux.
- Area of interest : Research, Programming.
- Soft Skills : Writing and Analysis, Leadership, Presentation
- Software Tool : Simulation tool: ns2, ns3
- Documentation tool : Latex

## WORK EXPERIENCE

- Working as IT faculty in Net comp Technologies Institution Bilaspur (H.P) recognized by NIELET Shimla from September 2017 to July 2018.

## HOBBIES

- Interacting with new people
- Internet surfing
- Playing games

## PERSONAL DETAILS

**DOB:** 17-12-1991  
**Father Name:** Sh. Nikka Ram Thakur  
**Language Known:** English & Hindi  
**Marital Status:** Unmarried  
**Nationality/Religion:** Indian / Hindu

## DECLARATION

I hereby, declare that the information furnished above is true to the best of my knowledge.

**Name:** Shashi Bhushan  
**Place:** Baddi  
**Date:** 25-9-2018