

Basanta Joshi

Date of Birth	Jan 31, 1983
Gender	Male
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Languages	Nepali, English, Hindi, Japanese

Professional Profile

Objective	<p>I am interested in working for the innovative, challenging and research orientated projects and keen to enhance the skill and share the experiences by participating in the discussions and presentations.</p> <p>Moreover, with my experiences in academics and research, I can provide guidance to students interested in research works and consultancy services in IT projects.</p>
Specialties	<p>Information and communication engineer with expertise on Image processing, 3D visualization and high performance computing and with hands on experience in coding and designing systems.</p>

Educational History

Degree	Doctor of engineering
Graduation period	Apr, 2009 - Mar, 2013
School	Graduate school of Osaka Sangyo University, Osaka, Japan
Thesis	<p>“3D Volumetric Particle Tracking Velocimetry based on the Tomographic Reconstruction Technique”</p> <p>The research focused on the development of the novel algorithm for flow visualization based on the computed tomography. A robust system was developed to visualize the topology of the complex flow in three-dimension (3D) by parallel processing of the high volume of intensity data generated by projecting pixel intensity of the recorded images.</p>
Degree	Masters of Information and Communication Engineering
Graduation period	Jan, 2006 - Feb, 2008
School	Institute of Engineering, Pulchowk, Lalitpur, Nepal
Thesis	<p>“Performance of Self Organizing Map PTV on the Basis of the PIV Standard Images”</p> <p>A Neural network based flow visualization techniques was developed and the performance was evaluated by synthetic images under varied experimental conditions.</p>
Degree	Bachelor of Electronics and Communication Engineering
Graduation period	Sep, 2001 - Oct, 2005
School	Institute of Engineering, Pulchowk, Lalitpur, Nepal
Thesis	<p>“An implementation Of Digital Signal Processing Component (Audio compression) On Xilinx Spartan FPGA using VHDL”</p> <p>The project was research project to analyze the compression level of an audio signal (file) through hardware compression using FPGA board. The project incorporated the use of hardware descriptive language VHDL and Matlab</p>

Work History

Position Title	Research consultant
Employment period	Jul, 2013 - Jan, 2014 (7 months)
Company/School	Immune Security Nepal (Branch of Denmark based Immune Security)
Country	Lalitpur, Nepal
Industry	SIEM / Network security
Position Description	Responsible for doing research on existing technologies and proposing/designing the better approach for the enhancing the features /architecture of the product LOGPOINT.

Position Title	Assistant professor
Employment period	Apr, 2013 - Present (10 months) Dec, 2005 - Dec, 2007 (2 years)
Company/School	Department of Electronics and Computer Engineering, Institute of Engineering
Country	Lalitpur, Nepal
Industry	Education / Teaching
Position Description	Teaching Electronics and Computer Engineering subjects in the department. Also, supervising various undergraduate and undergraduate projects.

Position Title	Researcher/Teaching assistant
Employment period	Oct, 2008 - Mar, 2013 (4 years 6 months)
Company/School	Graduate school of Osaka Sangyo University
Country	Osaka, Japan
Industry	Education / Teaching
Position Description	Involved in variety of research activities as a prerequisite of the PhD degree. Research work was basically focused on Image processing and developing novel algorithm for the 3D visualization of fluid flows using C/C++ as major language and Eclipse and Matlab as platform. In the process, attended and published articles in more than 6 peer reviewed and non peer reviewer international conferences. Also, worked as teaching assistant for C++, Java and embedded system classes and was also responsible for debugging the issues with networking, windows and Linux servers..

Position Title	Senior Software Engineer
Employment period	Aug, 2007 - Sep, 2008 (1 year 1 month)
Company/School	D2hawkeye Services (Currently Verisk Information Technologies)
Country	Kathmandu, Nepal
Industry	Healthcare
Position Description	Worked as a member of Data Analytics Department for building normative database and metrics of US healthcare data with hands on experience in working with DBMS like Oracle, MSSQL Server and MySQL. Also involved in developing automation tools using Java.

Position Title	Lecturer and Programmer
Employment period	Dec, 2005 - Sep, 2008 (2 years 9 months)
Company/School	Various engineering colleges and IT company
Country	Kathmandu, Nepal
Industry	Software/ Education / Teaching
Position Description	Worked as lecturer in various computer and electronics engineering colleges. Also, worked as Software Engineer to manage various projects from designing website to a complete client-server application. Hands on experience on working with DBMS like Oracle, MSSQL Server and MySQL and also with C, C++, Java, JSP/PHP.

Other Information

Hobbies	Playing Cricket, Tennis and Travelling.
Awards	Institute of Engineering Scholarship, Nepal (2002-2005). Monbukagakusho (MEXT) Scholarship, Japan (2009-2012).
Country Visited	India, Japan, Korea, Australia, Russia, Portugal, Italy, Germany, Austria and Switzerland.
Publications	More than 10 peer reviewed and non peer reviewed international articles.