

# Ashish Kumar

Date of Birth: 31-08-1984  
Bachelor of Technology  
(Information & Communication Technology)

F-108, Hall of Residence,  
Dhirubhai Ambani Institute of ICT  
(DA-IICT), Gandhinagar,  
Gujarat, India  
[kumar\\_ashish@da-iiict.org](mailto:kumar_ashish@da-iiict.org)  
<http://ashishkr165.tripod.com>

## Education

Standard	University/School	Year	Percentage/CPI
B.Tech (ICT)	DA-IICT	2006	3.26/4.0 (85.2%) {Till 7 <sup>th</sup> Semester}
AISSCE	DAV JVM, Shyamali, Ranchi	2001	75.4%
AISSE	DAV JVM, Shyamali, Ranchi	1999	89%

## Skills

**Prog. Languages** C, Java, JSP, OpenGL, Shell Script, SQL (Oracle, PostgreSQL), EJBQL, HTML, XML, PHP, 8085 Assembly Language  
**Operating System** Windows CE/98/2000 Pro/XP, Linux, Sun Solaris  
**Tools** Globus Toolkit, IBM Websphere, Rational Rose Suite, J2EE Deploytool, J2ME Wireless Toolkit, MultiSIM, AutoCAD, Scilab, Matlab, Texas Instruments CCS, , Netbeans, Macromedia Dreamweaver, Macromedia Flash, Microsoft Visual Studio

## Areas of Interest

Distributed Computing, Grid Computing, Embedded Systems, Sensor Networks, Image Processing, Computer Graphics, Data Structures

## Work Experience

August - November 2005: UG Research Assistant to Prof. Prabhat Ranjan, DA-IICT Gandhinagar: Worked on IBM Sponsored project to develop laboratory session for the course of Embedded Systems Programming

## Projects

### 1. Grid Image Processing Toolbox

The project is aimed at harnessing the processing power of a computational grid using Globus Toolkit to implement some complex image processing algorithms.

### 2. Mobile Weather Station

The system developed as term-project for Embedded Systems Programming course collects weather information using One Wire Weather station and TINI400 kit. This is uploaded on an ftp site using a mobile phone as a modem.

### 3. Acoustic Leak Detection in Oil Pipelines

It is aimed at detection and prevention of leaks in pipelines by studying the acoustics of the fluid flowing. It drew the attention of Chevron Texaco Overseas Petroleum, California and Reliance Industries Limited, India.

### 4. Person Tally Using Streaming Video

It was developed in Java during Industrial Internship 2004 at the Security Automation Division, Reliance Infocomm. It takes the feed from a Video Transmitter connected to a camera and counts the no. of persons moving in the either directions at the location.



### 5. **3D Home Architect**

The application developed using OpenGL library provides facility for drawing the blueprint of a house with furniture in two dimensions and subsequent navigation and editing of components in three dimensions.

### 6. **Real Time CricAnalyser**

Developed in Java, the application is used for scoring in cricket matches. The score and its analyses are available on the intranet and Java enabled mobile phones. It won Third Prize in Open Software Contest, Synapse 2004, Annual Technical Festival of DA-IICT.

### 7. **Digital Logic Simulator**

Developed in Java, this is a simulator for logic gates that allows hardware circuits to be designed and tested. It would be used by the students in the laboratories for the undergraduate courses on Digital Logic at DA-IICT.

### 8. **Gram Panchayat**

The software provides a centralized Oracle database for villages for maintaining population, land and livestock records alongwith supporting the functionalities of rationing, schooling and medication.

## Summer Internships

### 1. **Research Internship**

Organization: DA-IICT, Gandhinagar

Description: It involved working on an IBM Sponsored project to study the IBM PowerPC Architecture and develop an application to build and deploy configurable Linux kernel for embedded systems using this architecture.

### 2. **Industrial Internship**

Organization: Reliance Infocomm, Dhirubhai Ambani Knowledge City, Navi Mumbai

Description: The aim was to gain an insight into digital video compression and its applications. The project was to analyze the vehicular traffic using live video of the location, and sending the information on a user's mobile.

### 3. **Rural Internship**

Organization: Bhasha Research & Publication Centre, Vadodara

Description: This internship of 6 weeks done in the tribal areas of Vadodara, Gujarat was aimed at exploring ICT applications to improve the conditions of the rural sector.

## Personal Achievements

- IBM Certified Websphere Developer
- Got a SPI of 4.0/4.0 in semester VII (August-November 2005)
- Student Convener, DA-IICT Placement Committee 2005-06
- Overall Coordinator, Synapse 2005, Annual National Festival of DA-IICT
- School Head Boy, 2001, DAV Jawahar Vidya Mandir, Shyamali, Ranchi
- School Vice Captain, 2000, DAV Jawahar Vidya Mandir, Shyamali, Ranchi

Declaration: The above information is correct to the best of my knowledge.  
Ashish Kumar

