

# DILIP KUMAR KOLA

## Present Address:

Room No:B-112, Hall of Residence 9  
Indian Institute of Technology Kanpur

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## OBJECTIVE

- To obtain a creative and challenging Summer Internship where I can get a work experience that utilizes my engineering and interpersonal skills as well as provides me the opportunity to enhance them for future career prospects.

## AREAS OF INTEREST

- Networks and Security
- Operating Systems
- Cryptography and Algorithms
- Graph Theory

## EDUCATION

- **Indian Institute of Technology Kanpur, Kanpur**  
Bachelor of Technology (Computer Science and Engineering) To be completed by June 2009  
CPI: 7.5/10.0 or 3.00/4.00

### Courses undertaken:

- ◆ Fundamental of Computing
  - ◆ Data Structures and Algorithms I
  - ◆ Discrete Mathematics
  - ◆ Introduction to Computer Organisation
  - ◆ Operating Systems\*
  - ◆ Theory of Computation\*
  - ◆ Programming Tool and Techniques\*
  - ◆ Computer Networks\*
- \* means presently doing courses

### ➤ Schooling Information

Class	Percentage	Subjects
Class XII	89%	Mathematics, Physics, Chemistry, English, Sanskrit
Class X	88%	Mathematics, Science, Social Studies, English, Telugu, Hindi

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, JAVA, VHDL, Assembly Language(for UNIX Platform) on IA32 Architecture.
- **Platforms:** UNIX/Linux, MS-DOS, MS WINDOWS 95/98/2000/NT/XP/VISTA.
- **Tools and Technologies:** Latex/Tex, Lex, Yacc, Awk, HTML, PHP, Flash, MS FrontPage.

## **RESEARCH AND PROJECTS**

### ➤ **Solver for Very Large System of Equations:**

During Summer 2007, I was in a group of two, which developed a solver for a large system of equations of order 1000x1000 where each of the Coefficients being of the order of 500 digits in a **finite field** using **LU decomposition**.

**Objective:** of large numbers in a finite field we get large system of equations which can be solved using the above solver

**Guide:** Prof. Phalguni Gupta, Department of Computer Science and Engineering, IIT Kanpur.

### ➤ **Developing a Custom Cryptographic Service Provider (CSP)**

During Summer 2007, I was in a group of two trying to add new algorithms for developing a **Custom Cryptographic Service Provider** for **MS WINDOWS XP and VISTA** in order to enhance their security.

**Objective:** There is always a probability that system with standard Cryptography Algorithms may face an attack so our goal is to make a non standard Cryptography based system in order to protect from such attacks.

**Guide:** Prof. Manindra Agrawal, Department of Computer Science and Engineering, IIT Kanpur.

## **ACADEMIC ACHIEVEMENTS**

- Secured rank 71(Percentile: 99.95) in the IITJEE2 Examination, 2005.
- Secured rank 119(Percentile: 99.90) of successful candidates in the AIEEE3 Examination, 2005.
- Secured rank 11(Percentile: 99.98) in Polytechnic Exam (State Level Exam), 2003.

## **EXTRA-CURRICULAR ACTIVITIES**

- Coordinator of Control Room in Antaragni, Cultural Festival of IITK -2007.
- Coordinator of Control Room in Udghosh, Sports Festival of IITK -2007.
- Volunteer of Convocation-2007.
- Assistant Coordinator of Control Room in Techkriti, Technical Festival of IITK -2007.
- Secretary of Control Room in Antaragni-2006.
- Winner of a Robotics Competition in 2005.

## **PERSONAL INFORMATION**

**Permanent Address:** Door No:58-9-77  
New karasa  
Visakhapatnam-530009  
Andhrapradesh, India

**Date of Birth:** 29<sup>th</sup> August 1988  
**Sex:** Male  
**Nationality:** Indian  
**Phone:** 0891-2520569

## **DECLARATION**

I hereby declare that the above details are true to the best of my knowledge.

Place : Indian Institute of Technology Kanpur  
Name : Dilip Kumar Kola