Rohit Verma
D-320, Radhakrishnan Hall of Residence
I.I.T. Kharagpur, Kharagpur, West Bengal, India 721302
Ph. no.: (91)-7501379538, E-mail: rohitverma89@gmail.com

Academic Record

	Degree/Certificate	Institute/School	CGPA	Year
EDUCATION	Final Year B.Tech, Electronics and Electrical Communication	IIT Kharagpur	7.95	2007-2011
	Higher secondary certificate(ISC)	Modern Academy, Lucknow	96.8%	2007
	Secondary school certificate(ICSE)	C.M.S, Lucknow	94%	2005

ACADEMIC ACHIEVEMENTS	**MITACS** Globalink Scholar (Prof. Identified Project, among 30 students from all over India). 2010 **All India Rank 536** among 3200,000 students in IITJEE. 2007 - All India Rank 417 among 4000,000 students in AIEEE. 2007 - I am an **NTSE** (National Talent Search Examination) scholar. 2005 - Awarded Scholar Badge for excellent academic performance in school for 2 consecutive Years. 2005-2007 - Awarded 90% scholarship for two continuous years in school. 2005-2007 - Qualified for the first two rounds of **Kishore Vaigyanic Protsahan Yojna(KVPY)**. 2005
SELECT PROJECTS	**Detection of Human facial expression using a MANFIS** using LBP (Local Binary Pattern) information to build the MANFIS based model to detect expressions like Fear, Sad, Disgust, Anger, Surprise and Happy achieving 94.29% efficiency. Completed under Prof. S.K.Barai. - Written term papers on : "**Fuzzy logic application in impulse noise reduction in an image**" "**Writer-independent off-line signature verification based on genetic algorithm**". **Intrusion detection in computer networks using nearest neighbour approach.**

Internships/Work Experience

MITACS Globalink, Q1 Labs / University of New Brunswick, Canada *(May 10-July 10)*	**Problem:** Development of a Log Management tool, which focuses on processing various formats of logs generated from different sources through a single code, which is able to parse the ever varying "ad-hoc" data. **Job profile:** This project was supervised by Dr. Ali Ghorbani in close collaboration with Q1 Labs (http://q1labs.com/Solutions/Log-Management.aspx). **Achievements**: This software handles "all" kinds of logs, generating "schema" used for various user-defined functions. Q1 labs will be applying for a patent and is going to launch the product in summer next year.
University of Applied Sciences Giessen-Friedberg, Germany *(May 09-July 09)*	**Problem:** Developing an absolute encoder which provides a contactless method for displacement measurement. **Job profile:** Worked under the supervision of Dr. Ubbo Ricklefs. Responsibilities include conducting an extensive analysis on the behavior of Optical sensors when used on moving corned surfaces. **Achievements**: Achieved 98% efficiency in measurement of movement with accuracy reaching smaller than 1 micron depending on the size of algorithm and magnification. Industrial applications include displacement Measurement, Positioning and Sensors for autonomous robots.

Extra Curricular Activities

POSITIONS OF RESPONSIBILITY	- Representative head of Mitacs New Brunswick, responsibilities included welfare of other interns and media face. - Chairing member of **Kharagpur Cyber Championship**, an annual inter college competition organized by IIT Kharagpur. - Headed a group of 20 students in an Environmental awareness program under National Service Scheme.
TECHNICAL & SPORTS	- Member of the **Gold** winning Product Design team of R.K.Hall of residence. - Member of the **Silver** winning Bengali Dramatics team of R.K.Hall of residence. - Participated in many **robotics and coding events** in **Kshitij 2008** and **Kshitij 2009**. - Member of **FOOTBALL** team of R.K.Hall of Residence.
SOCIAL & ENVIRONMENTAL WORK	- Active member of the **Gopali Youth Welfare Society (GYWS)** aimed at ensuring socio-economic welfare for underprivileged and weaker sections of the society at Gopali village 5 km from IIT Kharagpur. Its main motto is **"not to make the children literate, but to make them educated"**. - Volunteer of the Environmental awareness program under **National Service Scheme**. - We also developed a low-cost system (named it "**CRYOCOOLING**") to preserve vegetables in hot, humid climate for longer time.
SKILLS	**Operating Systems**: Windows (XP/98/2000), Linux. **Programming languages**: C, C++, PSPICE, JAVA, VHDL, Verilog, Visual Basic. **Software:** MATLAB, Labview 8.5, Xilinx ISE, Cadence, AUTOCAD.