

Curriculum Vitae

Name – KHATIWADA, MADHUP

Date of Birth - 15th June, 1977

Contact Details

Mailing Address - Flat-9, Ilam Village
Homestead Lane, Ilam
Christchurch, New Zealand.

Permanent Address - 18 Pragyik Marg,
Biratnagar-16,
Biratnagar, Nepal.

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Education

2003- **University of Canterbury**
Christchurch, New Zealand

Currently enrolled as a Master's student in Department of
Electrical and Computer Engineering.

Thesis Title: "Processing Techniques for Efficient MMSE
Receivers in MIMO System"

Papers:	Error Control Coding	EDEL670
	Applied Random Processes	EDEL674
	Soft Computing	EDEL675
	Advanced Digital Communications	EDEL650
	Ad-hoc Networking	EDEL679

(Expected Date of Graduation – March, 2005)

1997-2001 **Kathmandu University**
Dhulikhel, Nepal

Bachelor of Engineering in Electrical and Electronics Engineering,
majoring in Communication. (Distinction)

1994-1996 **Mahendra Morang Adarsh Campus**
Biratnagar, Nepal

Intermediate in Science and Technology (First Class)

Research Synopsis

My research primarily focuses on the study of various processing techniques that can be employed for vital improvements in MMSE receiver performance in a Rayleigh fading single-user MIMO wireless communication environment. These different techniques will be compared in terms of capacity and bit error rate (BER). At present, I am working on using channel knowledge to implement some processing techniques in the MMSE receivers. A couple of interesting processing techniques I have been dealing with are Sub-Channel (Eigen- Channels) Modeling and Ordered Successive Detection in BLAST method. The comparisons will be performed over a range of channel conditions using standard statistical techniques in MATLAB.

Skills

Computational Skills

Excellent computing skills, which include-

- High proficiency in MATLAB programming, especially in simulation using statistical tools.
- Expertise in C - programming
- Familiarity to Visual Basic programming
- Adeptness in Microsoft Office package including Word, Excel, Access, Front Page, Power Point etc

Other Traits and Skills

Enthusiastic worker with

- Extensive knowledge of information theory, coding, higher mathematics
- Quick learner. Motivated and dedicated to getting the job done right.
- Strong communication skills. Work well with others at various level
- Courteous and professional. Good sense of humor.
- Able to travel as needed.

Work Experience

2004 - Teaching Assistant, Department of Electrical and Computer Engineering, University of Canterbury, Christchurch, New Zealand

I am involved in lab supervision for some communications lab.

**2001-2002 Teaching Assistant, Department of Electronics Engineering,
Nepal Engineering College,
Bhaktapur, Nepal**

I was involved in lecturing undergraduate students of 2nd, 3rd and 4th year Electronics Engineering courses. I was responsible for course plan, lecture plan, lecturing and marking for some courses. As a part of my job I was supervising Laboratories for undergraduate students of Electronic and Computer Engineering and was also responsible for the safe and efficient conduct of the laboratory sessions.

**1996-1997 Assistant Electrician, Hitachi Plant Engineering &
Construction Co. Ltd., Nepal Office,
Kathmandu, Nepal**

I was involved in the works related to Electric wiring and general Electrical machines and equipment maintenance.

Prizes and Awards Received

- Awarded NZAID Postgraduate Scholarship for Masters of Engineering in the University of Canterbury, Christchurch.

Workshops and Conferences

- IEEE New Zealand Wireless Workshop 2004 at Industrial Research Ltd., Lower Hutt, Wellington, New Zealand. Title of the presentation made - " V-BLAST: Speed and Ordering ".

Memberships

- Student member of IEEE.
- Member of Nepal Engineering Council, category "A".