Shailesh S. Ingale

ingale@illinoisalumni.org

Current Address
112 East Daniel Street
Champaign, IL 61820
(217) 531 - 0455
Cell: (240) 606 - 2662

Permanent Address
12413 Olivewood Place
Silver Spring, MD 20904
(301) 622 – 5069

EDUCATION

University of Illinois at Urbana-Champaign

Master of Science Degree in Electrical Engineering, May 2004 GPA: 3.5 / 4.0
Bachelor of Science Degree in Electrical Engineering, May 2002 GPA: 3.6 / 4.0

EXPERIENCE

Intelligent Hearing Aid Project, University of Illinois (6/2003 – 5/2004)

- Reduced training time of statistical models 40-fold with only minimal losses in accuracy of models
- Studied algorithms (using MATLAB and C) for training statistical models for pattern recognition
- Authored MS thesis: "Comparison of Alternative Training Algorithms for Hidden Markov Models"

ECE 110 Lab Teaching Assistant, University of Illinois (8/2003 – 5/2004)

- **Evaluated as excellent (top 30% of TAs) by my students**
- Introduced new material in an introductory freshman-level technical lab course
- Taught two 3-hour labs and graded approximately 30 lab reports each week

University of Illinois Coordinated Science Lab, Summer Intern (5/2002 – 8/2002)

- Studied use of Pulse Width Modulation (PWM) for creating energy efficient audio amplifiers
- Analyzed noise reduction techniques (using MATLAB) for PWM amplifiers
- Compared performance of various noise reduction techniques

ECE 345: Senior Design Project (8/2001 – 12/2001)

- Received ***"ECE 345 Hall of Fame Best Engineered"*** award
- Designed and implemented an intelligent Caller ID system
- Developed requirements to seamlessly integrate hardware and software components

Advanced Micro Devices, Austin TX**,** Semester Co-op (1/2001 – 7/2001)

- Designed circuits for Athlon chipsets (using Design Architect)
- Automated various time-consuming tasks with Perl scripts
- Analyzed efficiency of various circuit reduction tools (using hSpice simulations)

Lockheed Martin Space Operations, Seabrook, MD, Summer Intern (1999, 2000)

- Wrote test scripts and security plans for NASA satellite ground systems
- Maintained diagrams of NASA satellite command computer networks

ADDITIONAL SKILLS

- ***ECE 437,*** Graduate-level Speech Processing Course (Fall 2003)
  - Modeled the functioning of the middle and inner ears in MATLAB
  - Studied various sound compression and noise reduction techniques
- ***Software:*** hSpice, MATLAB, Simulink, Design Architect, IC Station, Arcadia
- ***Programming:*** Perl, C/C++, HTML, MFC, Javascript, Assembly, Pascal, BASIC
- ***Operating Systems:*** Windows 95/98/2000/NT/XP, MS-DOS, Solaris/UNIX, MacOS
- ***Other Skills:*** LaTeX (typesetting markup language), feature-style article writing (JOURN 150), persuasive writing (ADV 288)
- ***US Citizen***