ARUN AVUDAINAYAGAM

307 SW 16th Avenue, #339 (352) 384 0614
Gainesville, FL-32601 arun@dsp.ufl.edu
http://arun-10.tripod.com

OBJECTIVE

To procure a job in the field of Telecommunication and Networking and involve myself in a career of active research

EDUCATION

- Master of Science in Electrical and Computer Engineering, University of Florida , **DEC 2001**
  Breadth Areas: Computer System and Networks, Communications **G.P.A: 4.0**
  Special Interest Courses: Wireless Networks, Error control coding, Spread Spectrum and CDMA, Queueing Theory
- Bachelor of Engineering in Electronics and Communication Engineering, Anna University, India
  C.G.P.A: 9.157/10, Ranked 2nd in class of 76 students
  Special Interest Courses: LAN & WAN, Cellular Mobile Communication ,Image Processing

EXPERIENCE

- **Teaching Assistant**, Dept. of Electrical & Computer Engg. , Univ. of Florida, Aug.1999-present
- **Project Leader**, Telematics Group, Anna University, India- Responsible for coordination, task-division and supervision of the work of a team of 3, Aug. 1999-May 2000
- Served on the Technical Committee and helped organize 'Vision', a national level technical symposium conducted by Anna University, for 3 years , Jan.1997-Mar.2000
- Served in the National Cadet Corps, Technical Naval Unit as an NC-II cadet, 1996-1997

PROJECTS

GRADUATE LEVEL:

- **Graduate Thesis**: Developed a Device and Energy Aware Routing Algorithm called DEAR for Wireless Ad Hoc Networks (GloMoSim Implementation).
- MATLAB TOOLKIT FOR LDPC CODES : Developed a toolkit in MATLAB for the analysis of LDPC codes. Includes functions for Encoding and Decoding the codes, channel simulations and functions for various operations over GF2.

UNDERGRADUATE LEVEL:

- **Undergraduate Thesis**: Analysis of Jitter in ATM networks handling Self- similar traffic.
- NETLAB 1.0: Designed a GUI based software for the analysis of planar/non-planar electric circuits having active/passive elements. Features: customizable user screen and freq. response
- HEAD COUNT: Built an infrared-eye based circuit that maintains an accurate count of people in a room.
- STOCK PREDICTION FOR DUMMIES: Used MATLAB to model the variations in stock prices of selected companies and proposed a method for Stock Market Speculation for novices.
- DREAM HOUSE: A Hardware/Software project where appliances like the lights, fans and air-conditioners are controlled by a computer receiving inputs from strategically placed sensors.
- MEDIAN AUGMENTATION (Digital Image Processing Project): Developed an algorithm called Median Augmentation to clean images corrupted with pepper noise. This paper won the 2nd prize in a National Level Paper Presentation Contest conducted by IIT -Madras.

COMPUTER SKILLS

Operating Systems: DOS, Windows-98, and Unix
Programming languages: Pascal, C, C++, and Java
Simulation Tools: MATLAB, GloMoSim,OPNET,PSPICE
GUI/Front Ends: Visual C++
Web Technologies: HTML, JAVAscript

ACADEMIC HONORS

- Graduate Fellowship recipient , Dept. of Electrical and Computer Engg. , Univ. of Florida
- Received 2nd prize in a national level software contest for graphically simulating "Random Walk"
- Received prizes in several paper presentation competitions for a paper on "Priority Scheduling in ATM switches"