

# Srinath Padmanabhan

spadmana@usc.edu

1553 Vista Club Circle, #302 Santa Clara, CA – 95054

Ph-310-948-8358

**OBJECTIVE:** Seeking to make a career in a reputed Company working with Computer Networks and related fields, utilizing and enhancing the knowledge I have gained while pursuing my Masters at the Univ. of Southern California. I am also looking for an Internship for the Spring '08 semester.

## EDUCATION:

### **M.S. Electrical Engineering**

University of Southern California

Expected Graduation **May 2008**

GPA : 3.82

**Coursework:** Operating Systems, Probability Theory for Engineers (Fall '06), Computer Communication, Broadband Network Architectures, Neural Networks and Fuzzy Logic (Spring '07). Computer Systems Organization, Design and Analysis of Computer Communication Networks, Wireless Sensor Networks (Fall '07). Wireless and Mobile Networks Design and Lab (Spring '08).

### **B.E. Electronics & Telecommunications Engineering**

University of Mumbai, INDIA

Graduation **May 2006**

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**Related Coursework:** Basic Computer Communication, Digital Voice Communication, Satellite Communication, Mobile Communication, Digital Communication.

## COMPUTER SKILLS:

Programming/Software:

C, C++, TCL, MATLAB, Adobe Photoshop, SPSS, MS Office, Open Office

Operating Systems:

Linux, MS Dos, Windows 98, 2000, XP and Me

Hardware:

Setup PCs, Programmable Logic Controllers, Microcontrollers.

## WORK EXPERIENCE:

**Cisco Systems Inc.** Software Engineer, Since July 2008

- Work on the VSA Card for the Cisco 7200 routers which provide acceleration of security features.
- Worked on Individual Projects by implementing various Features.
- Maintained the teams LAB and built and maintained testbeds.
- Wrote test scripts to test various Features

**Motorola Inc. (Sunnyvale,CA), Mobile Devices Department,** Intern, Summer 2007

- Worked with an Agilent 8960, a Radio Network Simulator capable of simulating GSM,GPRS, W-CDMA, HSDPA.
- Worked on Various 802.11 access points, running OpenWRT custom firmware.
- Setup various Network resources and Designed and setup a network to allow access to various network resources using these transports.

## ACADEMIC PROJECTS:

- **Operating Systems** - Implemented key OS concepts such as Thread Synchronization, Virtual Memory, System calls, Remote Procedure Calls, Networking, Communication in Distributed Systems etc.
- **Computer Communication** – Implemented a Sensor network data logging system, involving among other things implementing of c-SDSP, logging data using a Sensor and implementing centralized data collection system
- **Broadband Network Architecture** - Wrote a technical report on Transport Layer Protocols for High Speed and Broadband Networks.
- **Neural Networks and Fuzzy Logic** - Built a Fuzzy Logic based system to estimate the price of a commodity and tested it for prices of Surfboards.
- **Computer Systems Organization** – Designed various systems to familiarize self with Single Staged and Multi-Staged Pipelined CPUs.
- **Wireless Sensor Networks** - Efficient Jamming of 802.11 networks: design and evaluate an intelligent mechanism using 15.4 devices that can efficiently shut-down 802.11 networks, taking into account 802.11 MAC behavior.
- **Design and Analysis of Computer Communication Networks** - Wrote a technical paper looking into Probabilistic caching and ARQ in Wireless Sensor Networks.
- **Wireless and Mobile Networks Design and Lab** – Designed and built a back end and an interface for Live and Archived streaming of Lectures onto the Nokia N95.
- **Image Processing** - developed and implemented an algorithm to conceal errors by watermarking essential data to improve the quality of error affected images. **(at the Indian Institute of Technology – Bombay)**
- **Case Study – Bharat Petroleum Corporation Ltd. India:** Did a case study to assess the feasibility of Implementation of RFID for Tracking LPG Cylinders.

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## ACHIEVEMENTS:

- Published a Technical Paper titled “ *Error Concealment by Digital Watermarking*” in 2006 at the IEEE Asia Pacific Conference on Circuits and Systems (APCCAS 2006).
- Obtained Admission for the Bachelor of Engineering Course with a Merit Scholarship.

## ACTIVITIES:

- Active member - IEEE since 2003 and organized many events in the College IEEE Technical Festivals
- Event Head - Robotics (Mar and Oct 2005) and Adobe Photoshop Poster Design Competition (Mar 2005)
- First Prize - “Project Paper Presentation” - SIES IEEE Technical Festival, Oct 2005
- Participant in three major seminars and courses
  - CEP Course at KReSIT, IIT Bombay, on RFID Sensor Networks in January 2005
  - Program on “Automation: PLC SIMATIC S7-300” at SIEMENS, Mumbai in June 2004.
  - National Seminar on Computer Vision and Image Processing 2006 in February 2006.
- Participated in Robotics Competitions in three Technical Festivals, including one at I I T Delhi.