

RESUME

PRAVEEN D

College of Engineering Guindy, Anna University.

BE Computer Science and Engineering, 4th Year.

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Summary

- I am final year BE Computer Science and Engineering student studying in Anna University.
- Done many Network and Artificial Intelligence based projects.
- Going to publish a poster in a conference in Wireless Networks.
- Have won the 5th place in ACM Asian Regional Inter College Programming contest.

Personal Information

Father's Name	P.Durairaj
Date of Birth	26 th June 1985
Sex	Male
Languages Known	English, Tamil, Hindi, French
Hobbies	Solving Logical Puzzles, Listening Music and Playing Cricket.
Contact Address	New No 32 Old NO 30 Third Trust Cross Street Mandavelipakkam Chennai-600028 TamilNadu, India

Research Interests

- Wireless Networks
- Network Management
- Operating Systems

Publications

Praveen D, Lenin Ravindranath, Fredrick Prashanth, Leo Prasath, Arul Siromoney, "**Improving he Latency of 802.11 Hand-offs using Sentinel based Architecture**", High Performance Computing, Goa, December 2005.

Academics

Bachelor of Engg.	College of Engineering Guindy, Anna University (2002-2006) (Computer Science and Engineering) CGPA: 8.623/10 (Up to 6 th semester)
12th Standard	St.John's Matriculation Higher Secondary School, Chennai (2001-2002) Board of study: State Board Percentage Secured: 96.4% Engineering Entrance cut-off: 292.58/300

10th Standard

St.John's Senior Secondary School, Chennai (1999-2000)

Board of study: CBSE

Percentage Secured: 89.6%

BE Course GPA

Semester	I	II	III	IV	V	VI
GPA (Out of 10)	9.04	8.5	8.692	8.2	8.875	8.409

Skills

Languages	C, C++, Visual Basic, UNIX shell Programming,
Databases	Oracle
Operating Systems	Windows9x/2K/XP, Linux
Packages	MS Office

Projects

Sentinel based Architecture for Wireless Network Management - Final Year (BE) Project

Sentinel based architecture is an architecture where both Clients of a Wireless Network and dedicated Stationary Sensors collaborate to monitor the Wireless Network. Using such architecture we handle different problems.

- Finding Hand-off Regions and Improving the 802.11 Hand-offs
- Location Determination and Mobility Prediction
- Fault Detection and Diagnosis

Offline Mail Client (in C#.NET)

An offline mail client with an interactive User Interface. The mail client synchronizes the offline store with the mail server whenever there is a change. SMTP mail servers were used. The modules implemented were

- Message Store Provider and various search features.
- Support for Address Book
- Background Synchronizer which synchronizes the Personal store with the mail server
- Interactive User Interface

Image Analysis and Strategy Making for Robotic Football

The project analyses a robotic football field using the image taken from the top of the field and forms an efficient strategy for the robots motion using graph theory concepts. The basic modules were

- Image processing to approximate the robot and ball positions and find the situation of the game (attacking or defending).
- Forming various frames of complete graph with robot and goal and try to find the best frame using shortest path, cut-set and other heuristics.
- Graphical Interface which shows run-time analysis.

Moment Based Tamil Character Recognition

A moment based nearest neighbour classification technique for Tamil Character Recognition. It works effectively with printed Tamil characters. There is training phase to train any character set before we start recognising that character set. The basic modules were

- Image Pre-processing which includes image thresholding, noise removal.
- Segmentation of line and characters using horizontal and vertical projectors.
- Character thinning and size normalisation.
- Feature Extraction using Hu's invariant moments.
- Nearest neighbour classification.

Other Academic Projects

- Lexical Analyser, Parser and Intermediate Code Generator for C like Language (in C)
- Dynamic Branch Prediction using Tournament Predictors(in SS SMT simulator)
- Assembler and Macro processor for SIC (XE) (in C)
- Accounting and Registration software of the Computer Society of Anna University
- An Electronic Timer (Electronics project)

Academic Achievements

- **5th Place** in the **Asian Regional Finals** of the **30th ACM ICPC Programming contest** held at Kolkata, India.
- Scored Centum in Maths in the Higher Secondary Examination 2002.
- Awarded Medal and Proficiency by Indian Institute of Professional Education for securing centum in Maths in Higher Secondary Examination 2002.
- School Second in Twelfth Standard (1157/1200).

Prizes Won

- **2nd** in **National Level Debate Competition** conducted by the National Council of Educational Research and Training.
- “Best Speaker” award in a **International Level Debate competition** conducted by Institute of Biotechnology and Applied Bioinformatics (IBAB) and BIOCON, Bangalore- 2004
- **Rolling Shield** for the Year 1997-98 in the LEPROSY MISSION Madras Chapter for the Elocution Competition.
- “Best Speaker” Award for elocution competition conducted by Lion's Club of Madras, Besant Nagar for 3 consecutive years (1998-2000).
- **2nd** in Intra-College ACM selection contest 2005.
- **3rd** in Intra-College ACM selection contest 2004.
- **4th** place in the inter-college programming contest conducted by Crescent, Chennai, 2004, 2005.
- **1st** Prize in intra-college programming contest in SYNC 2004.
- Won many prizes in elocution and programming competitions in school and college.

Extra and Co-Curricular Activities

- Worked as an **Intern** and moderated the **Group Discussion program** in **ANNA FM (90.4 MHz)**, which was broadcasted every Wednesday evenings.
- Executive Member of the ACM Chapter of Anna University (2005-2006)
- President of the Science Club St. John's during the academic year 2001-02.

- Conducted intra college ACM programming contests for CEG students through the ACM Chapter of Anna University.
- Executive Committee member to conduct inter-school competitions in ABACUS 2004, SYNC 2004, PRODIGY 2005.
- Member of NSO.
- Member of the Computer Society of CEG.
- Participated in Debates and Elocution Contests in school days and won many prizes.
- Have conducted quiz, group discussion programs and programming contests in school and college levels.

Declaration

I hereby declare that the information furnished above is true to the best of my knowledge.

(PRAVEEN D)

References

- 1) http://www.cse.iitk.ac.in/users/acm/index_files/page0009.htm
- 2) <http://www.hipc.org/hipc2005/hipc2005posters.html>