

**SUGANYA P JEBASINGH**  
**Email:** sug.jebasingh@gmail.com  
**Phone:** +1-980-428-0803

**OBJECTIVE**

---

To obtain a job in the field of Computer Engineering in an organization where I can utilize my programming and design skills.

**WORK AUTHORIZATION**

---

Permanent resident

**EDUCATION**

---

- Dec 2010                    **MS in Electrical Engineering**  
UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE, Charlotte (NC)
- Current GPA – 3.71/4.
  - Area of interest – Embedded systems.
  - Coursework includes Embedded Systems, Advanced Embedded Systems, Embedded Chip Multi-processing, Sensors & Actuators, Applied Artificial Intelligence, Computer Architecture, Digital System Testing, Introduction to VHDL and Research Tools & Techniques in Computer Engineering.
- May 2008                    **B.E. in Electronics and Communication Engineering**  
ANNA UNIVERSITY (Sriram Engineering College), India
- Score – 81% (First class with distinction).
  - Coursework/Lab work included Electronic Circuits, Digital Electronics, Integrated Circuits, Signals and Systems, Digital and Analog Communication, Digital Signal Processing, Microprocessors, Computer Networks, VLSI design and Principles of Management.

**AWARDS**

---

- 2006                         Department topper, Sriram Engineering College.  
2004                         Department topper, Sriram Engineering College.

**PROJECTS**

---

- Various projects in C for testing digital circuits.
- FIFO implementation using VHDL.
- Porting embedded linux onto TS 7200 and using Socket programming to communicate with a computer.
- Worked on a robotics project using Stage software to control iRobot Create.
- Designed a fuzzy system to analyze the effect of brain tumor on sleep EEG. The system differentiated EEG signals and identified irregularities based on power spectrum and frequency spectrum. The system was developed using MATLAB.
- Designed a fuzzy system to predict the outcome of a cricket match. The system was developed using MATLAB.
- Designed and developed a small scale transmitter and receiver.

**SKILLS**

---

- Operating Systems - Windows 95/98/2000 / XP / Vista, Mac OS X, Linux.
- Software – HEW, Code Vision, MS office suite, Adobe Photoshop, LaTeX.

- Design – MATLAB, SPICE, VHDL.
- Programming language – C.
- Working knowledge of Socket programming.
- Basic knowledge of parallel programming.
- Worked with microcontrollers/boards like 8051, ARM9, ATmega 128, Renesas QSK62P and Renesas RX62N .
- Experience with communication protocols like I2C and RS 232 (UART).
- Can use instruments like signal generator, oscilloscope, multimeter.

## WORK EXPERIENCE

---

- Oct 2010 – Present     **Grader (VHDL)**  
 UNIVERISTY OF NORTH CAROLINA AT CHARLOTTE  
 Responsible for instructing undergraduate students about using ModelSim and clearing VHDL based doubts.  
 Grading assignments, projects, quizzes and exams.
- Jul 2010 – Present     **Embedded Systems Lab Manager (Volunteer)**  
 UNIVERISTY OF NORTH CAROLINA AT CHARLOTTE  
 Responsible for desk space allocation, lab equipment maintenance and cleanliness of the lab.  
 Performed other tasks like overseeing undergraduate projects and exams.
- Jul – Sept 2010       **Research Assistant**  
 UNIVERISTY OF NORTH CAROLINA AT CHARLOTTE  
 Responsible for content development of two chapters (Data Structures & Digital I/O and ADC) in a book titled ‘Introduction to Embedded Systems Using the Renesas RX62N Microcontroller’.  
 Special Consultant for the research team; responsible for overall layout, coherence of the book and helping other team members in their area of research.

## ACTIVITIES

---

- Member of the Editorial Board, College magazine (Sriram Engineering College).
- Chairman of Public Relations, Rotaract club (Sriram Engineering College).
- Volunteer, Scripture Union (Tamil Nadu north), India.
- Volunteer, Attune (a national technical symposium) 2004, 2005.

## INTERPERSONAL SKILLS

---

- A versatile team player.
- Ability to maintain composure under pressure.
- Aptitude to learn and master new technologies.