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OBJECTIVE:

To obtain an interesting and stimulating internship position which will help utilize and enhance my knowledge and skills and also further my career aspirations.

EDUCATION:

Masters degree in Electrical engineering (M.S) Expected May 2008
The University of North Carolina at Charlotte, Charlotte, North Carolina
Overall GPA: **4.0/4.0**

Bachelor's degree in Instrumentation Engineering (B.E) June 2006
Vivekanand Education Society's Institute of
Technology, University of Mumbai, Mumbai, India
Overall GPA: **4.0/4.0**

TECHNICAL COURSE WORK:

MASTERS LEVEL:

Embedded Systems Introduction to VHDL Designing with USB
Digital Signal Processing Advanced Embedded Fault Tolerant Systems
Design of Intelligent Spacecraft

BACHELORS LEVEL:

Microprocessors Advanced Microprocessors and Microcontrollers
C and C++ programming Basic and Advanced Control Systems
Electronic Devices and Circuits Logic Circuits
Principles of Communication Image Processing

TECHNICAL SKILLS:

Programming languages: C, C++, Visual C++

Hardware platforms: High Performance Embedded Workshop (HEW), Atmel AVR, ModelSim (VHDL)

Software: Microsoft Word, PowerPoint

Operating Systems: Windows 2000, XP

PROJECTS:

North Carolina Space Grant Robotic Device Design (Expected Dec 2007)

- Motor control for controlling the movement.
- Image processing and subsequent path planning and navigation.

Electromagnetic Pump Pressure Control (December 2006)

- Purpose of the project was to control the rate of pumping using the Renesas microcontroller.
- The pressure generated by the pump was maintained at a user-defined rate using On\Off control.

Reading ADC data through the USB port (December 2006)

- The EZ-USB board was used to read ADC data through an isochronous interface and record it in a text file.
- The board used to enumerate and re-enumerate as a composite USB device since it had two interfaces.

VHDL Final Project (December 2006)

- A FIFO was simulated using a FIFO controller designed in ModelSim and a RAM imported from the Xilinx library.
- A test bench was written in ModelSim and the circuit was simulated using Xilinx and a synthesis report was prepared.

Electromagnetic Gun (May 2006)

- Purpose of the project was to demonstrate the use of electromagnetics for launching projectiles
- Technique of rate of change of induction was used for launching purposes.
- Gun was mounted on a robotic platform with 2 degrees of freedom.
- Interfaced with AVR microcontroller.

PID Controller (February 2006)

- Atmel AVR microcontroller was used and interfaced with 4-20 mA analog signal.
- A LCD display was also interfaced and flow of fluid in a pipe was controlled.

EXPERIENCE:

Position: Student Assistant

Aug 2006 onwards

Department of Housing and Residence Life,
UNC Charlotte, Charlotte, NC.

ACHIEVEMENTS/EXTRA-CURRICULAR ACTIVITIES:

1. Won **First** prize in the IEEE-Vesit Robosoccer contest in 2003.
2. Won **First** prize in the Math and Logic Quiz at Abhyantriki in 2004.
3. Won **First** prize in the ISA-VESIT Article Writing contest in 2005.
4. Won **First** prize in the Basketball event at Sphurti in 2006.
5. Won **Second** prize in the IEEE-Vesit Hardware contest in March 2004.
6. Won **Second** prize in the ISA-VESIT Junkyard Wars in 2003.
7. I was the mentor for the winning team at the IEEE-VESIT Robotics competition in the year 2005.