

SIDDHARTH AHUJA

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Objective:

Seeking an internship in the field of embedded systems design, testing and application.

Education:

- **Master of Science in Electrical Engineering** at The University of North Carolina at Charlotte, Charlotte, NC (Current GPA: 4.00/4.00) (Expected May 2009)
- **Bachelor of Engineering in Instrumentation Engineering** from Rajiv Gandhi Institute of Technology, University of Mumbai, India (First Class) (August 2005)

Skills:

- Software Languages: C, C++
- Microcontrollers: Intel 8085/8086/8051, Renesas M16/62C, TI MSP 430, Cypress CY3210 PSoC
- Operating Systems: Windows, Linux, Solaris

Work Experience:

Honeywell Building Solutions - Project Engineer (January 2006 to July 2007)

- Designed life safety control systems such as a fire alarm system for a 300 room five star hotel using the Honeywell XLS140 fire alarm notification and response system
- Successfully executed a project involving commissioning an access control system for department of economic development, government of UAE, using biometric hand geometry scanners.
- Developed sub systems for HVAC (Heating, Ventilation and Air Conditioning) at Dubai health care city.
- Led a cross functional team of engineers and technicians for the fire and safety operations.

Professional Training:

Honeywell Automation India Ltd. (HAIL) (September – October 2005)

- Simulated a control system for chilled water circulation using the Honeywell TDC3000 / TPS Distributed Control System (DCS)
- Mimicked the functionality of an elevator and a coffee machine using the Allen Bradley AB PLC 530/540 Programmable Logic Controller (PLC) and a hardwired simulator.
- Utilized the Honeywell Experion PKS SCADA to observe and control the PLC based projects.

Thesis:

Control Algorithms and Hardware Design for an Autonomous Robotic Vehicle (January 2008 to present)

Current Projects:

- **Hacking the iRobot Roomba** - Main objective is to control the Roomba from an external MCU while using the robot's existing sensors
- **Programmable Built in Self-Test (BIST) of DRAMS** – Implementing an algorithm for detecting neighborhood pattern sensitive faults.

Undergraduate Project:

- **Linux based Network Traffic Control** with Comsat Max (Now a part of AirTel India).

Relevant Courses:

Control Systems Theory – I & II; Embedded Systems; Advanced Embedded Systems; Digital Systems Testing;