

Gautam Dash

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Objective:

To work towards a career in Automation/Control Systems and Embedded Systems.

Education:

MS in Electrical & Computer Engineering. (Summer 2010)

University of Florida, Gainesville, FL. (Current GPA – **3.7/4**) (GRE score – **1590/1600 & 5.0/6.0**)

Bachelor of Engineering (BS) in Electronics and Instrumentation Engineering from National Institute of Science and Technology (NIST), Berhampur University, India in 2005 (69.78% ~ GPA 3.7/4; as per World Education Services guidelines)

Work Experience:

- **Teaching Assistant** for Dr. Schwartz, (Digital Logic & Computer Systems) Fall '09, Spring-Summer '10.
- Was working for Dr. Timothy Middelkoop as a Student Assistant in Summer 2009 on A Web Based Integrated Modeling, Control and Optimization Framework for Clean Technologies. (Project Solarsa) (Using JAVA, J2EE, JAXB, STAX)
- Was employed as a Software Engineer, from Nov 2005 to Jul 2008 at INFOSYS Technologies Ltd. Bangalore, India. Project experience:
 - Development of Infosys ACCORD, an automated middleware and back-end testing solution. Responsible for the design and implementation of ACCORD Web Services testing module (GUI and functional aspects). Integrating SOA (Service-Oriented Architecture) Testing capabilities into ACCORD. Served as Technical Analyst for the implementation of middleware and SOA testing frameworks for clients in the telecom and banking domains.
 - Development of the Infosys Testing Center of Excellence (TCOE). Responsible for the development of the web based Testing Maturity Assessment module. (an interactive maturity assessment questionnaire and automated grading system to determine the software testing needs of an enterprise)

Skills:

Proficient in C, C#, Java, MATLAB, VHDL & FPGA programming, PLC Programming, Assembly Languages (8085 μ p, 8086 μ p, 8051 μ c), J2EE, Jakarta Struts-Tiles, SWING, JAXB, STAX, JDBC, JMS, AJAX, XML parsers, Web Services (SOAP & WSDL) , HTML, Web Development, Microsoft Windows variants, Microsoft Office Suites, Adobe Photoshop.

Academic Projects:

- Member of the software team of Subjugator at Machine Intelligence Laboratory responsible for **Data Acquisition and Controls**. (Subjugator is an **autonomous underwater vehicle** designed and built by students for the Association for Unmanned Vehicles Systems International (AUVSI) underwater competition, winning thrice, from 2005 to 2007.) (Using VHDL, MATLAB, C#, JAUS)
- **Non-Linear Control Systems Project** (Spring 2010): Designing an Output Feedback and RISE controller for a 2-link robotic manipulator in MATLAB SIMULINK.
- **Control System Theory Project** (Spring 2009): Designing a PID and LQR controller for an Osprey UAV in MATLAB SIMULINK.
- **Reconfigurable Computing Project** (Fall 2008): Investigated "Performance Benefits of a FPGA Implementation of a Parallel Edge Detection Algorithm" on a Xilinx Virtex 4 FPGA.
- **BS Project** (Spring 2005): Developed a working model of a "PLC based Lift Controller" with a GeFanuc 9 input 13 output PLC using Ladder Logic.
- Technical Seminar on "Flight Control Systems" in Fall 2004 at NIST
- Computer Graphics Project (Fall 2004): Developed the 'PACMAN' game in C.
- **Summer Internship Project** (Summer 2004): PLC (Allen Bradley) controlled automated Conveyor system at INDAL (Indian Aluminum), Hirakud, India.
- Term paper on "Gain Scheduling Approach to Cruise Control" in Fall 2003

Achievements:

- Recipient of the **National Talent Search Scholarship** awarded by the National Council for Education, Research and Training, New Delhi, India (NCERT) 1999-2005. (awarded to the top 1000 students in India)