

Gautam Dash

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Objective:

To work towards a career in Automation and Embedded Systems.

Education:

PhD in Electrical & Computer Engineering. (Fall 2013)

University of Florida, Gainesville, FL. (Current GPA – 3.62/4) (GRE score – 1590/1600)

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 - Fall '10, Fall '11.
- Teaching Assistant for Dr. Stitt, (Digital Design) Spring '11.
- 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.
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).
Development of the web based Testing Maturity Assessment module. (An interactive maturity assessment questionnaire / scoring system to determine the software testing needs of an enterprise)

Skills:

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

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Academic Projects:

- Member of Team Subjugator at Machine Intelligence Laboratory responsible for Data Acquisition and Signal Processing. (Subjugator is an autonomous underwater vehicle designed and built by students) (Using VHDL, MATLAB, C#, C++, RTI-DDS, JAUS)
- Applied Controls for Automation and Robotics Project (Spring 2011): ‘Control of a 6-DOF Pick and Place Robot’
- GPS-INS Integration Project (Spring 2011): ‘Design and Analysis of a GPS aided Inertial Navigation System’
- Image Processing and Computer Vision Project (Fall 2010): ‘Text Retrieval from Images of Business Cards Captured by Cell Phone Cameras’
- Pattern Recognition Project (Spring 2010): ‘Text-Independent Speaker Identification using Gaussian Mixture Models’.
- Non-Linear Control Systems Project (Spring 2010): Output Feedback and RISE controller for a 2-link robotic manipulator.
- Control System Theory Project (Spring 2009): PID and LQR controller for an Osprey UAV
- Reconfigurable Computing Project (Fall 2008): ‘Performance Benefits of a FPGA Implementation of a Parallel Edge Detection Algorithm’ on a Xilinx Virtex 4 FPGA
- BS Project (Spring 2005): ‘PLC based Lift Controller’ on a GeFanuc PLC using Ladder Logic.
- Technical Seminar (Fall 2004): ‘Flight Control Systems’
- Computer Graphics Project (Fall 2004): Developed a ‘PACMAN’ game in C.
- Summer Internship Project (Summer 2004): PLC (Allen Bradley) controlled automated Conveyer system at INDAL (Indian Aluminum), HiraKud, India.
- Term paper (Fall 2003): ‘Gain Scheduling Approach to Cruise Control’

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)

Publications:

- G. Dash, J. Weaver, A. Arroyo and E. Schwartz. “Orchestration of Intelligent Ground Vehicles into a Homogeneous Swarm via the Google Cloud.” 2012 Florida Conference on Recent Advances in Robotics, Boca Raton, Florida, May 10-11, 2012, 159-162.
- J. Weaver, G. Dash, A. Arroyo and E. Schwartz. “Heterogeneous Collaborative Swarms of Autonomous Agents with Varying Capabilities.” 2012 Florida Conference on Recent Advances in Robotics, Boca Raton, Florida, May 10-11, 2012, 172-175.