

VINAY SANKAR PADISETTY
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Objective: To secure an Internship/Entry Level Position in the areas of Instrumentation/Process Control. Could start work immediately.

Personal Skills: Hardworking nature, willing to learn (I'm 21 now), excellent analytical, and communication skills, can work as part of a team or individually with minimum supervision.

Education:

- **Master of Science in Electrical and Computer Engineering** **GPA - 3.5/4.0**
Southern Illinois University Carbondale, USA December 2005
- **Bachelor of Engineering in Electronics and Instrumentation** **GPA - 4.0/4.0**
Andhra University, India April 2004

Relevant Coursework:

Transducers, Industrial Instrumentation, Analytical and Environmental Instrumentation, Control Systems, Process Control, Computer Control of Processes, Embedded Control and Mechatronics, Instrumentation system design, Reliability and Quality control, Optimal Control

Work Experience:

- May 2005 - Present **Research Assistant, Dr. Punit Kohli, Dept. of Chemistry and Biochemistry, SIUC**
- Conducting research in Nanotechnology
 - Assisting in elucidation of proposed mechanism of tilted nano pores formation in alumina membrane
- March 2005 - August 2005 **Graduate Assistant, International Students and Scholars, SIUC**
- Assisted in developing handbook for international students
 - Designed website for project, assisted in preparing presentations
 - Coordinated orientation activities for international students
- March 2004 - May 2004 **Entry Level Engineer, Aseptic Packaging Station - Tetra Pak, Visakha Co-op Dairy, Visakhapatnam, India**
- Monitored and updated database of process parameters with time
 - Testing of equipment, report writing, preparing work orders
 - Responded to E-mails from service providers
 - Performed office procedures as needed
- March 2003 - November 2003 **Project Intern, Maintenance Instrumentation Department, Hindustan Petroleum Corporation Limited, Vizag, India**
- Completed project "Non-Intrusive Fluid Level Sensing & Control"
 - Submitted comprehensive report of Internship experience
 - Understanding plant operations

Projects Completed:

- **Non-Intrusive Fluid Level Sensing and Control**

An Ultrasound based system transmits a high frequency pulse to the fluid tank and receives the bounced pulse. The timing from the transmit state to the receive state is calculated. Based on the level of the fluid the Micro-controller activates the solenoid valve to perform the corrective action.

- **A/D Converter Interface**

A/D converter interface was developed on a PCB, and interfaced to 8085 Microprocessor kit - SDK 85. This circuit is verified by applying an input signal, and checking for an equivalent binary representation of the input signal at the output.

- **Electrical motors modeling using Simulink**

Models of electric motors are developed as blocks in Simulink, and emulated in a virtual lab. These blocks are treated as actual motors once developed with unknown transfer functions where only I/P and O/P signals can be accessed. Appropriate I/P signals are applied and O/P signals are observed.

Paper Presentations:

- Journal Paper in preparation - Elucidation of mechanism of nano porous alumina and implication of different geometrical shapes
- Presentation on "Fiber Optics: Transmission system & modulation techniques"
- Presented a paper on "Biometrics-A Technological Lock" at Student Seminar on Advanced Communication organized by Institution of Electronics & Telecommunication Engineers
- Presentation on "Nonlinear control using Neural Networks"

Test Scores:

- GRE - 1440/1600 (V+Q=640+800), Analytical Writing Assessment - 4.0/6.0
- TOEFL - 270/300, TOEFL Essay Score - 5.0/6.0
- CAT - 90%ile

Computer Skills:

- Assembly Language Programming - 8085, 8086
- Languages - C, C++
- Software Tools - SCADA, LabVIEW, MATLAB, MathCAD, SIMULINK
- CAD Tools - OrCAD, AutoCAD 2005/2006, Inventor, SolidWorks, MicroStation
- Operating Systems - MS-DOS, Windows NT/95/98/XP, Macintosh
- Web Design tools - HTML, Dreamweaver, PageBuilder, FrontPage, Moviemaker
- Applications - Fireworks, Photoshop, PageMaker, iMovie, iPhoto
- Office Applications - MS-Office

Memberships in Professional Organizations:

- IEEE Student Member
- IETE Students' Forum Member
- Bio-Medical Engineering Society of India, Visakhapatnam City Student Chapter Member

References:

- Available upon request