

# **Oscar Gerardo Herdocia**

oherdoci@bayou.uh.edu  
713-668-0830  
7315 Brompton Apt.#124B  
Houston, TX 77025

## **Objective:**

To gain experience with a major corporation that can develop my engineering skills and assist me in becoming a valuable asset to a true engineering team.

## **Qualifications:**

- Computer Skills (e.g. Word, Excel, PowerPoint, Adobe products, UNIX Operating System)
- Computer Programming Languages (e.g. LabView, C++, Pascal, Matlab, HTML)
- Knowledge of computer hardware
- Communication Skills
  - Bilingual in Spanish and English
  - Proven Artistic Skills
  - Cultural Experience (Lived in Nicaragua and Costa Rica; Visited Mexico, Italy, Spain, England, France)
  - Major participation in the writing of two papers for the University of Houston on the functionality of electrical contacts subjected to mechanical vibrations

## **Awards Received:**

- Scholarship Awards from several sources: General Electric Fund, American Petroleum Industries, Louis Stokes Award for Minority Participation, Cooper Industries, British Petroleum, Lynette Aubrey Foundation, Shell Co.
- Engineering Dean's List Fall 1997, Spring 1998
- President's Education Award for Outstanding High School Performance, 1997

## **Education:**

University Of Houston: Expected graduation, May 2001  
Enrolled in Cullen College of Engineering and Honors College  
Major: Mechanical Engineering  
Cumulative G.P.A. (4.0 Scale): 3.44

Mayde Creek High School: Graduated May 1997  
Graduated with Honors and International Business Achievement  
Cumulative G.P.A. (4.0 Scale): 3.51

## **Experience:**

FACILITY ENGINEER/INTERN, BP Amoco, Houston, Texas (May 2000 – August 2000)

Contributed to design and feasibility studies for the Crazy Horse GoM Deepwater Development Project. Played key role in the selection process for high-pressure water injection pumps including working with vendors to select optimal design with respect to reservoir conditions as well as technology limits. Participated in the layout design of the topsides. Created benchmarking databases for Spar, TLP, and Semi-submersible platform designs.

- Gained knowledge and experience in the oil industry
- Expanded knowledge of pump designs of all types and developed skills to recognize advantages as well as disadvantages of each.
- Exposed to engineering design programs
- Matured business skills in a professional environment

RESEARCH ASSISTANT, University Of Houston, Houston, Texas (May 1999 - May 2000)

Conducted and analyzed experiments to gather new information on fretting and the effects of mechanical vibrations on conductivity

- Gained knowledge over the field of material science
- Sharpened laboratory skills and procedures with respect to signal processing, data analysis, and equipment/setup modification
- Improved programming skills, specifically for the purposes of integrating computers with experimental devices through GPIB cable and DAQ boards

TRANSFER ARTICULATIONS ASSISTANT, University of Houston, Texas (Sept. 1998- Jan. 1999)

Maintained and created Transfer degree Plans and Transfer Department web sites. Maintained various databases of prospective students and community college counselors. Assisted counselors in the creation of presentations. Created Flyers and documents for various student recruitment events.

- Exposed to a team office environment
- Gained knowledge in web programming
- Experience in graphic design

RESEARCH ASSISTANT, University Of Houston, Houston, Texas (May 1998-July 1998)

Assisted Researchers of the F.L.A.C.S. Program in the Engineering Department

- Intensive skill training with Unix systems
- Valuable experience in web site creation and data input
- Exposed to Fluid Mechanics of Blood Flow in the Human Arteries

## **Associations:**

Tau Beta Pi Honors Engineering Fraternity

Pi Tau Sigma Mechanical Engineering Honors Fraternity (Secretary/Computer Coordinator Elected Position)

American Society of Mechanical Engineers (A.S.M.E.)

University of Houston Honors College

Program for Mastery of Engineering Studies (P.R.O.M.E.S.)

Member of Future Business Leaders of America (F.B.L.A.) in High School

## **Current Activities:**

Scholar Enrichment Program Facilitator for Mechanics I Workshop

Pi Tau Sigma Tutor for Mechanics I

NASA Reduced Gravity / Micro Gravity Research Program

## **Hobbies/Sports:**

Tennis, Basketball, Scuba Diving, Water-skiing, Fishing, Traveling, Art, Computers, Volunteering

## **References:**

Dr. David C. Zimmerman

University of Houston, Professor; Mechanical Vibrations, 713-743-4500

Dr. Kenneth White

University of Houston, Professor; Materials Science and Engineering, 713-743-4500

Orlando J. Teran

Sunland Engineering Co., President, 713-467-8484

Paul Dereck

ABB Lummus Global Inc., Contracts Manager, 281-589-3770