

Ralph Henry Borchard
Brchrd00@neo.tamu.edu

Temporary Address

2327 Pintail Ln.
College Station, TX 77845
(979) 324-7544

Permanent Address

10802 Eastwood Dr.
Corpus Christi, TX 78410
(361) 241-3341

Objective: Seeking a position as a Machinery Engineer/Rotordynamicist.

Education: **Texas A&M University**, College Station, TX

B.S., Mechanical Engineering

Graduation Date: May 2005

GPA: 3.512

M.S., Mechanical Engineering

Graduation Date: Dec. 2007

GPA: 3.667

Work Experience:

- **Research Assistant** – Graduate research under Dr. Childs. June 2006 – present.
 - Aided in construction of the Northrup Gromman Space Technology funded test rig modeled after the USET rocket engine turbo pump
 - Gathered data and conducted tests on the test rig
 - Preliminary research on the lift off effects of a flexure pivot tilting pad bearing
 - Managed an undergraduate student worker
- **Teaching Assistant** – Graded papers, tests, and helped students learn undergraduate thermodynamics. Jan. 2006 – June 2006.
- **Lyondell-Citgo Co-op** – Supported the needs of the Reliability Eng. Group in the maintenance dept. by leading projects including operator rounds and retube analysis for heat exchangers, participated in RCFA's, critical machinery vibrations rounds, documented failures, and supported asset teams. May 23, 2005 – Jan. 2006, Houston, TX
- **OTRC (Offshore Technology Research Center) Research** – Researching with Dr. Ed Marotta, Texas A&M University, the effects of interstitial mesh in deep water pipe insulation, Summer and Fall 2004, College Station, TX
 - Gathered preliminary research, and ordered test material, conducted experiments, uncertainty analysis, and wrote majority of research paper
- **Russell Veteto Engineering**- Civil engineering company specializing in civil, structural, coastal, and underwater engineering, Summer 2002, Corpus Christi, TX.
 - Designed and created a RV Park renovation project
 - Wrote design specifications, and utilized software such as AutoCAD

Academic Awards and Honors:

- Hispanic Scholarship Fund Scholarship Recipient
- Travis Lynch Endowment Scholarship Recipient
- Dean's List – Fall 2001, Spring 2002, Spring 2003, Spring 2005
- Class of 2005 Council Member of the Year for 2002-2003
- Class of 2005 Chair of the Year for 2004-2005

Activities and Involvement:

- Class of 2005 Council – Intramural Chair, Fundraising Chair
- American Society of Mechanical Engineers
- National Society of Collegiate Scholars
- Hispanic Scholarship Fund
- Tau Beta Pi Member

Skills:

LabVIEW, C, MATLAB, Maple, AutoCAD, Solid Works, R.A.T., MI Tool, SAP, CAT II Vibration Institute Certification, Cause Map Training