Bruno De Hoyos

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Education	**Bachelor of Science, Mechanical Engineering, May 2016** The University of Texas at Austin Overall GPA: 3.76/4.00

Relevant Courses

Engineering Computational Methods	Heat Transfer	Fluid Mechanics
Probability and Statistics	Mechatronics	Dynamics
Matrices and Matrix Calculations	Machine Elements	Materials Engineering

Experience

09/2014 - Present

Undergraduate Research Assistant, Center for High Energy Density Science
- Assist in assembling laser configurations and aligning equipment on optical table
- Work with machine shop staff to produce parts and track fabrication process

06/2014 - 08/2014

Summer Projects
- Established personal website to host my academic projects at www.bdehoyos.me
- Developed a simple Arduino-based robot to practice principles learned in class

05/2013 – 12/2013

Student Technician, Applied Research Laboratories
- Used MATLAB to perform data analysis and data processing of ocean database
- Redesigned MATLAB GUI's to improve ease of use and functionality of backend code
- Implemented functions to facilitate data processing over command line interface
- Developed test functions to ensure code produced correct results

08/2012 – 12/2012

Team Leader, Reverse-Engineering of a Bicycle Bell
- Utilized SolidWorks and a 3D printer to replicate functioning bell parts
- Studied 3D computer modeling, engineering drafting, and rapid prototyping
- Gained experience using milling machines and lathes
- Strengthened team skills through collaboration with teammates

08/2011 – 08/2012

Math Tutor, Mathnasium Learning Center
- Tutored students in grades K-12 to improve overall math proficiency by over 30%
- Handled maintenance of student paperwork and instructional material
- Interacted closely with parents through student progress review sessions

Skills

Proficient in Microsoft Office, MATLAB, Adobe Photoshop, CorelDraw
Familiar with SolidWorks, C/C++, Java, HTML, Git, Arduino
Strong interpersonal and communication skills
Fluent in Spanish, basic conversational French

Accomplishments

College Scholar, Spring 2014
University Honors, Fall 2012 – Present
Marvin Selig Endowed Presidential Scholarship in Mechanical Engineering
Warren R. and Yvonne B. Waggoner Endowed Presidential Scholarship in Mechanical Engineering
Equal Opportunity in Engineering (EOE) Academic Scholar, High Honor Roll 2012 - 2013

Organizations

Active Member, UT IEEE Robotics and Automation Society (RAS)
- Competed in annual robotics competition within a team to create autonomous racing robot
- Learned the basics of robot building and control algorithms for tuning robot motion

Historian, Pi Sigma Pi Minority Academic Engineering Society (PSP)

Active Member, Society of Hispanic Professional Engineers (SHPE)

Active Member, Tau Beta Pi Engineering Honor Society (TBP)