Bruno De Hoyos

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Education

Bachelor of Science, Mechanical Engineering, May 2016
Elements of Computing Certificate
The University of Texas at Austin
Overall GPA: 3.75/4.00

Experience

06/2015 – 08/2015 **GRDP Operations Intern, Cameron**
- Applied lean six sigma methodologies to identify improvement areas in pressure testing process
- Created and deployed a standardized pressure testing training program to 33 NAM facilities

01/2015 – 05/2015 **Undergraduate Research Assistant, ReNeu Robotics Laboratory**
- Developed a 3D graphics program to visualize motion of a robotic exoskeleton in near real-time
- Studied computer graphics and anatomical models of human hands

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 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

Projects

Built a hardware and software toolkit to help visually impaired people perceive their surroundings
Developed a self-stabilizing, Arduino-based robot to practice principles learned in class
Established personal website to host my academic projects at www.bdehoyos.me

Skills

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

Accomplishments

College Scholar, Spring 2014, Spring 2015
University Honors, Fall 2012 – Present
Pi Sigma Pi Officer of the Year 2015
Darrel Royal Unrestricted Endowed Presidential Scholarship
Marvin Selig Endowed Presidential Scholarship in Mechanical Engineering

Organizations

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

Pi Sigma Pi Minority Academic Engineering Society (PSP)
- Photograph events and maintain photo website as Historian for 2014–2015 academic school year
- Participate in outreach events to introduce local middle school students to STEM careers

Tau Beta Pi Engineering Honor Society (TBP)
- Volunteer at various local community service events throughout the semester