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

Relevant Courses

Dynamic Systems and Controls Mechatronics Probability and Statistics

Engineering Computational Methods Heat Transfer Fluid Mechanics
Elements of Data Visualization Machine Elements Engineering Finance

Experience

01/2015 - Present Undergraduate Researcher, ReNeu Robotics Laboratory

• Develop and modify existing software for controlling robotic devices

• Use SolidWorks to generate 3D models of mechanical components

09/2014 - 01/2015 Undergraduate Research Assistant, Center for High Energy Density Science

· Assembled laser configurations and aligned equipment on optical table

• Worked in student machine shop to produce parts and track fabrication process

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

ProjectsBuilt 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, C/C++, Java, HTML, Git, Arduino, R

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

Equal Opportunity in Engineering (EOE) Academic Scholar, High Honor Roll 2012–2013

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

· Attend outreach events to introduce Austin middle school students to STEM careers

Tau Beta Pi Engineering Honor Society (TBP)

• Participate in various local community service events throughout the semester