Alex Valente

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Objectives

Seeking Internship working as an aid for any engineering possession, hopefully with an emphasis in Electrical Engineering or Computer Science.

Education

Dos Pueblos Engineering Academy

***June, 2015*** --High School Diploma with an emphasis on four major engineering fields for use in the work force.

* Was Leader of Sector Section for Senior Year Capstone Project
* Graduated with 4.25 Weighted GPA
* Collective Senior Project won Best in Class for the Bay Area Maker Fair 2015
* Santa Barbara Athletic Roundtable Athlete of the year 2013, 2014, 2015
* Left with in-depth understanding of System Controls, Electrical Circuit Design, Version Control Management, Industrial Design and Manufacturing, Computer Aided Design with Specific knowledge in SolidWorks, Use of Industrial Machinery such as Lathes, Mills, CNCs, Routers and C02 Laser Cutters, as well as any standard equipment found in a machine shop.

University of Southern California, Viterbi School of Engineering

***June, 2019***

* Double majoring in both Electrical Engineering and Computer Science
* Current member of the University Men’s Swim and Dive Team
  + Pac-12 Second Place finisher in the 100 Butterfly as Freshmen
  + NCAA All-American in 100 Butterfly as Freshmen

Experience

USC Games Graduate Project

| Adelie and the Obelisk Video Game

Quality Assurance Tester

As part of a Video Game Quality Assurance Class, I helped test and develop a video game made by USC Graduate Students. With different build stages of the game, using given test cases I would play, test and report any game issues to developers.

Dos Pueblos Engineering Academy

| 2015 Senior Capstone Project; Carousel of Physics

Sector Design and Manufacture Leader

While this project was for school, it was no small accomplishment. During our Senior year, our class designed, prototyped, manufactured and built the Carousel of Physics; a large scale mechatronics installation incorporating over 50 thousand parts all custom made in house. This project is one of a kind and valued at close to a million dollars an was awarded Best in Class and 3 Editor’s Awards during the 2015 Bay Area Maker Fair. It has been featured in a number of shows including the PBS show NOVA. It is currently displayed in the Santa Barbara Museum of Modern Art. More information can be found at www.dpengineering.org/2015-carousel-physics.

Skills

* Advanced knowledge in both C++ and Arduino programing.
* Can machine complex parts by hand on mills and lathes with tolerance up to .001± of an inch.
* In death understanding of computer architecture.
* Basic electrical circuit design.
* Working with others on large scale projects in stressful environments.