CHRISTOS VOUTSARAS

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Education

University of California, Los Angeles (UCLA) – B.S., Mechanical Engineering Major.
Expected: June 2017
GPA: 3.5

Experience

Teradek - Internship , Irvine
Summer 2015
- Assembled devices, trouble-shoot LCD screens, soldered components on PCB boards, wrote assembly manuals for production.
- Performed mechanical testing on devices: Vibration testing, heat testing, drop testing.
- Tested the wifi range of products on different wifi channels, in client and infrastructure mode, for internal and external antennas.
- Analyzed the signal of MIMO antennas using a spectrum analyzer to troubleshoot a reduction in the wifi range.

Research Assistant, Energy Innovation Laboratory, UCLA.
February 2014-Present
PI: Prof. Richard Wirz.
- Developed solid models and animations of wind turbines using SolidWorks, to be used in presentations by the PI.
- Plotted and analyzed the mass properties of composite wind turbine blades using Python.

Motor Oil Hellas – Internship, Greece.
Summer of 2014
- Analyzed petrochemical and automotive industry reports, for energy trends and technological innovations in the mobility sector until 2050.
- The results were included in the presentation that was made to the president of the company.

Projects

MAE 94 Project – Rubber Band Powered Car, UCLA.
Fall Quarter 2014
- Designed and built a rubber band miniature car (using SolidWorks and 3D-printing) after performing FEA on it.
- Selected a fan drivetrain to eliminate wheel spin.

Thales Arduino Challenge, UCLA.
November 2014
- Designed and prototyped an automated parking lot ticket-printing machine that extends towards an approaching vehicle.
- Programmed the automation using an Arduino microcontroller, C++, and sensors.

Physics 1C Extra Credit Project – Virtual Reality Headset, UCLA.
Fall Quarter 2014
- Designed and 3D printed a modified Google Cardboard virtual reality headset.
- Modified the Google cardboard design to accept a wider range of phone devices and features.
  - Incorporated an earphone port and an adjustable back to support phones of different thicknesses.
  - Improved the air circulation around the device to overcome overheating problems with Google Cardboard.
  - Implemented the option to use different lenses and adjust the distance between them.

Underwater Unmanned Vehicle Club, UCLA.
September 2013-Present
- Created CAD models of different parts of the submarine.
- Transitioned from CAD to the electronics team – aiming to improve the code and wiring that allows the vehicle control underwater.

Leadership

International Environmental camp with Lifeworks, Ecuador.
Summer of 2012
- Planted native plant species in Galapagos Islands.
- Created a watering system for a community in the Amazon.
- Built a compost toilet for a local school in the Andes.

President of the **Athens College Student Government**.
Academic year: 2012-2013
- Raised $90,000 revenue in the student's annual festival, yielding a 20% profit.
- Raised $6,000 revenue during our Christmas dance event, yielding a 15% profit.

Skills

Member of the **UCLA Club Soccer team**.
January of 2014-June 2014

Scuba diving, Greece, BVI islands.
2010-Present
- Certifications: Padi-open water diver, deep diver, night diver, underwater naturalist, and shipwreck diver.

Languages: Python, C++, Matlab, Fluent in **Greek** and **English**. Basic knowledge of **German**.