Marvin Paparisto

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Education

Bachelor of Science: Electrical Engineering 06/2018 (expected)
University of California, Los Angeles - Los Angeles, California

Skills

- LabVIEW
- Wiring schematics
- MATLAB
- Visual Studio
- Cadsoft EAGLE
- Knowledge of SQL

- Knowledgeable in PCBA
- Object component-oriented software
- C++
- Arduino microcontroller programming
- Oscilloscope usage

Research

Ozcan Research Group 12/2016 to present
Using image processing and computing techniques to measure the 3-dimensional locomotion and morpology of micro swimmers.

Brown University Summer Courses 07/2013 to 08/2013
Studied the technological readiness, structural logistics, and cost-effectiveness of a space elevator and artificial heart.

Work History

UCLA Student Union Event Services - 308 Westwood Plaza, Los Angeles, CA 90095 9/2015 to 05/2016
Helped set up and supervise venues for student groups and other members of the campus community.

Projects

GoonieBlast 08/2015
Designed a GUI-based computer game in C++. Enabled the user to manipulate a visual player icon on a display screen to eliminate hostile robots, collect miscellaneous items, and advance to additional game levels.

Autonomous Navigating Car 11/2016
Designed a small mechanical car which could navigate a linear passageway from start to finish. The car was built from a geared, wooden chassis; two DC motors; an Arduino MEGA 2560 microcontroller; and obstacle sensors made from infrared LEDs, visible-light LEDs, and photodiodes.

Micromouse 09/2016 to present
Designing an autonomous robot which must find the center of a 16x16 maze. The mouse must keep track of its position, map out the structure of the maze, and know when it has successfully found the center. Design components will include a NUCLEO F411RE circuit board, voltage regulators, motors, encoders, and gyroscopes.

Languages

- English - Native language
- Spanish - Speak, read, and write with limited proficiency

Extracurricular Experience

IEEE Open Space Project 12/2014 to 05/2015
Acquired hands-on design experience by implementing a number of electrical systems, including a digital synthesizer, a pulse-instantiated sound system, and a IR-emitter-based obstacle detector. Became well-versed in lab tools and equipment. Learned how theoretical concepts could be translated into hardware manifestations e.g. using the concept of pulse width modulation to change the intensity of an RGB LED.