Tony Oliverio

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toliv.github.io

Education

University of California, Berkeley (2015-2019)
Major: Electrical Engineering and Computer Science
GPA (through Spring 2016): 3.9
Relevant Classes through Fall 2016: CS 70: Discrete Math, CS 61C: Great Ideas in Computer Architecture, CS 61B: Data Structures, EE 16B: Designing Information Systems II, EE 16B: Designing Information Systems I, CS 61A: Structure and Interpretation of Computer Programs, Math 53: Multivariable Calculus
Expected Relevant Spring 2017 Classes: CS 170: Efficient Algorithms and Intractable Problems, CS 188: Intro to AI
Relevant Pre-College Class: Math 4A: Linear Algebra and Applications (Grade: A) at UCSB

Work Experience

Texas Instruments San Diego (Low Power RF), summer 2016

- Software Engineering Intern: Worked with TI's Bluetooth Low Energy (BLE) software team. Developed Python automation framework for power consumption testing as well as Bluetooth SIG certification testing for multiple devices including CC2650 Launchpad, CC1350 Launchpad, and SmartRF 2650 Evaluation Board, eliminating a significant amount of manual testing hours.

Texas Instruments Santa Barbara (TI-RTOS), summer 2015

- Software Engineering Intern: Developed C and C++ Energia library for ZumoBot robot shield for TI CC3200, including autonomous maneuvers and feedback control through IMU sensor integration.

University of California, Santa Barbara, summer 2014.

- Software Engineering and Control Systems Intern: Implemented TCP framework for communication with robot tracking system, Bluetooth communication with iRoomba robots, and control algorithms for various applications for iRoomba differential drive robots in Java.

Projects

- toliv.github.io: Created and designed my personal website using HTML, CSS, and Javascript.
- Lead Software Developer for 2015 FIRST Robotics Team 1717: Developed Java software for the competition robot, including feedback control, motor control, autonomous routine. Developed Arduino/ C++ code for onboard Arduino responsible

for acting as a liaison between the robot and gyroscope/accelerometer external sensor.
- Worked on several Arduino projects throughout high school including code for controlling LED light patterns and controlling speeds of rotating Moire discs.
- Used Solidworks and Computer Aided Design Skills as well as lathe and mill precision machining to both design and fabricate parts, skills that I used during my time on FIRST Robotics Competition Team 1717.

Awards

- Marquis Family Honors Scholarship, February 2015, February 2016
- Cal Alumni Association Leadership Award, June 2015
- Winner of 2015 FIRST Robotics Competition World Championships Rockwell Automation Innovation in Control Award for Curie/ Carver fields, April 2015
- Winner of 2015 FIRST Robotics Competition Ventura Regional (with FRC Team 1717), March 2015
- AP Scholar with Distinction, 2013-2014
- AP Scholar, 2012-2013

Achievements

- Academic Rank 1, Dos Pueblos High School Class of 2015, 2012 through Fall 2015
- Co-President Dos Pueblos High School Science Club, Fall 2013 - Spring 2015
- Member of Dos Pueblos High School Science Bowl team, 2012 - Spring 2015 (competed at NASA Jet Propulsion Laboratory Regional- 2^{nd} place in 2015, 5^{th} place in 2013 and 2014)
- Member of Dos Pueblos High School Science Olympiad team, 2011-2015 (received 6^{th} place in Circuit Lab in 2013 and 6^{th} place in Rocks and Minerals in 2014 out of approximately 60 other teams)