Tony Oliverio

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Education

University of California, Berkeley (2015-2019)
Intended 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 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

- Embedded Processing Software Intern: Worked with TI's Bluetooth Low Energy (BLE) software team. Specific projects included full automation of power consumption testing for different devices including the Smart RF06 2650 and CC2650 Launchpad using Python and Jenkins, as well as full automation of Bluetooth SIG Profile Tuning Suite certification testing for TI BLE devices. In the process, gained a deep understanding of the Bluetooth Low Energy protocol as well as the related tradeoffs with regards to power versus performance.

Texas Instruments Santa Barbara, summer 2015

- Software Engineering Intern: Wrote C++ and C software support for TI CC3200 RedBear board for use in controlling a small tank robot shield (ZumoBot). Specifically wrote libraries for autonomous and feedback control as well as IMU sensor integration and maintained code through Git version control. In addition, gained experience with TI-RTOS through Energia MT and Code Composer Studio development environments.

University of California Santa Barbara, summer 2014.

- Software Engineering / Control Systems Intern: Responsibilities included learning concepts and implementation of control theory (specifically PID control) and developing Java algorithms in a control systems laboratory using differential drive "iRoomba" robots and a vision tracking system, "Vicon." Wrote code for serial interface between laptop and robot over a Bluetooth connection.

Projects

- Lead Programmer for FIRST Robotics Competition Team 1717 in 2015. Wrote Java code for the robot on the National Instruments roboRIO specifically regarding control systems for the robot including lower level PID control for individual motor controllers as well as more complex macro-scale control systems logic for motions and maneuvers of the robot. In addition, wrote C++ code for accessing gyroscope, accelerometer, and data on the roboRIO through an Arduino board for usage in control system applications. As programming lead, I coordinated group success through task prioritization and Mercurial version control.
- Worked on several Arduino projects throughout high school including code for controlling LED light patterns and controlling speeds of rotating Moire discs.
- Learned Solidworks and Computer Aided Design Skills as well as lathe and mill precision machining, skills that I used during my time on FIRST Robotics Competition Team 1717.

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)

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