Tony Oliverio

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Education

University of California, Berkeley (Fall 2015-Present)

Electrical Engineering and Computer Science, Class of 2019

Current GPA: 3.9

Key Classes through Fall 2016:

- CS 70: Discrete Math
- CS 61B: Data Structures
- CS 61A: Structure and Interpretation of Computer Programs
- Math 53: Multivariable Calculus
- CS 61C: Great Ideas in Computer Architectures
- EE 16B: Designing Information Systems II
- EE 16A: Designing Information Systems I

Planned Classes Spring 2017:

- CS 188: Intro to AI
- CS 170: Efficient Algorithms and Intractable Problems

Pre-College Class (at UC Santa Barbara):

- Math 4A: Linear Algebra and Applications

Work Experience

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

Software Engineering Internship, Bluetooth Low Energy

Contributions include:

- Developed Python automation framework for power consumption testing.
- Developed automated Bluetooth SIG certification testing for several devices.
- Target devices include: CC2650 and CC1350 Launchpads, SmartRF 2650 Evaluation Board.
- Efforts resulted in the drastic reduction of manual testing

Texas Instruments, Santa Barbara, Summer 2015

Software Engineering Internship, TI-RTOS

Contributions include:

- Developed C and C++ Energia library for TI CC3200 Zumobot robot shield.
- Libraries included autonomous maneuvers and feedback control via IMU sensor integration.

University of California, Santa Barbara, Summer 2014

Software Engineering and Control Systems Internship, UCSB ECE Control Systems

Contributions include:

- Implemented TCP framework for communication with robot tracking system.
- Developed (Implemented?) Bluetooth communication with iRoomba robots.
- Developed Java control algorithms for iRoomba differential drive robots.

Projects and Skills

Software Developer for Personal Website

- Designed and developed my personal website, toliv.github.io using Javascript, HTML, and CSS

Lead Software Developer for 2015 FIRST Robotics, Team 1717

- Developed Java software for the competition robot
- Software features included feedback control, motor control and autonomous routine
- C++ code for onboard Arduino as liaison between gyro/accelerometer sensor and robot

Solidworks and CAD Design, plus lathe and precision milling machine operation

- Designed and fabricated parts for 2015 Team 1717 Robot
- Designed and fabricated parts for rotating Moire disc and LED Light Structure Project

Software development for Arduino-based projects

- Developed code to control speeds and patterns of rotating Moire disc project
- Developed code to control patterns and sequencing of LED Light Sculpture Project

Awards

- Marquis Family Honors Scholarship, February 2015 and February 2016
- Cal Alumni Association Leadership Award, June 2015
- Rockwell Automation Innovation in Control Award, FIRST Robotics, April 2015
- Team 1717 FIRST Robotics Competition Winner, Ventura Regional, March 2015
- AP Scholar with Distinction, 2013-2014
- AP Scholar, 2012-2013

Achievements

- Academic Rank 1, Dos Pueblos High School, Class of 2015
- Co-President Dos Pueblos High School Science Club, Fall 2013 – Spring 2015
- Science Bowl Team 2013-2015; NASA JPL Regional; 2nd place 2015; 5th place 2013, 2014
- Science Olympiad 2011-2015; Occidental College
  - *6th Place in Circuit Lab, 2013*
  - *6th Place in Rocks and Minerals, 2014*