

# [Kyrollos Yanny]

## Education:

University of California, Los Angeles 2014-2016(expected)

- Department of Bioengineering

East Los Angeles Community College 2012-2014

- Relevant Course Work:
  - Calculus I,II,III
  - Linear Algebra and Differential Equations
  - General Biology I, II and Genetics
  - The Science of Biotechnology
  - Mechanics of Solids, Mechanics of Sound, Fluids and Heat
  - Electricity and Magnetism, Optics and Modern Physics
  - General Chemistry I, II
  - Organic Chemistry I, II
  - Programming in C++
  - Honors Statistics
- ELAC President's award and Dean's Honors list.
- Transferred to UCLA, fall 2014.

Narmer High School, Egypt 2009-2011

- 4.0 GPA

## Experience:

Schmidt Research Lab, University of California, Los Angeles 06/2014-08/2014

- As a research assistant at Dr. Schmidt's Laboratory, I was working on developing a low-cost, high-efficiency syringe pump using Arduino microcontrollers. The goal of this project was to provide hospitals, limited-funded laboratories, community colleges, and high school with a cheap and efficient alternative to the unjustifiably expensive currently existing syringe pumps. I was able to design and develop a syringe pump that costs only \$130 and has the same functionality and accuracy as the \$3000-\$4000 commercial syringe pumps. The design will be posted on Dr. Schmidt's website for anyone to use or modify for free.
- Faculty Mentor: Dr. Jacob Schmidt, Department of Bioengineering, UCLA.

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Supplemental Instruction Leader, East Los Angeles College

2012-2014

- Over the course of two years, I worked as a Supplemental Instruction (SI) Leader for General Chemistry I, Mechanics of Solids, and Mechanics of Sound, Fluids, and Heat at East Los Angeles College. As an SI leader, I am responsible to attend the physics and chemistry lectures with the students, take notes in class and post them online for students to use, and hold discussion sessions where I help the students with the hard topics they covered in class.
- Supervisors: Pr. Marina Papenkova, East Los Angeles College.  
Pr. Kamayar Kashayar, East Los Angeles College.  
Dr. Vahan Ghazarian, East Los Angeles College.

MESA Tutor, East Los Angeles College

2013-2014

- I worked for a year as a Physics, Chemistry, Biology, Math, and Engineering tutor at the Math Engineering and Science Achievement (MESA) program at East Los Angeles College where I help MESA students with homework or any hard topics they covered in class.
- Supervisor: Dr. Armando Rivera, East Los Angeles College.

## **Scholarly Presentations:**

- 2014 “Developing a low cost, high efficiency syringe pump using an Arduino microcontroller.” Transfer Student Summer Research Program, August 14, 2014, UC Los Angeles, Los Angeles, California.

## **Awards and Honors:**

- 2013 East Los Angeles College’s President’s Award.
- 2012-2014 East Los Angeles College’s Deans Honors List/Certificate.
- 2013 East Los Angeles College’s Honors Program Scholarship.
- 2013 The Bernard Osher Foundation Scholarship.
- 2013 Southern California Edison Stem Scholarship.

## **Professional Skills:**

- Knowledge of programming in C++ gained from college courses and research at UCLA
- Knowledge of using and programming the Arduino micro controller and the Raspberry pi gained from research at UCLA
- Knowledge of various biotechnology laboratory techniques gained from college courses

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- Strong Physics, Chemistry, Biology, and Math skills gained from working as a Supplemental Instruction Coach and a tutor at East Los Angeles College for more than two years.