Calling all Roboteers!

TEMPLE UNIVERSITY
ELECTRICAL AND COMPUTER ENGINEERING

AN ENGINEERING PROGRAM
FOR HIGH SCHOOL STUDENTS
SUMMER 2015

INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING

Learn how to build programmable mobile robots and compete with other high school students in the Delaware Valley, get a great introduction to a college program in Electrical and Computer Engineering.

JULY 7th, through AUGUST 6th, 2014

TEMPLE MAIN CAMPUS: Engineering Building, 1947 N. 12th Street

Tuesday, Wednesday, Thursday: 9:30-12 noon

This program will introduce students to some of the basic concepts of electrical and computer engineering. It will also provide extensive laboratory experience where the students will build autonomous, programmable mobile robots also give a good overview of the different specialties within the fields of electrical and computer engineering. Topics to be covered are:

1. Electrical components: Resistance, capacitance and electromagnetic induction coil.
2. Electronic components and integrated circuits: Diodes, transistors, operational amplifiers and timer circuits.
3. C-language programmable Arduino microcontrollers, photoresistors, infrared sensors and transmitters.

The program requires no homework or exams. Temple professors, graduate and undergraduate students will instruct you every step of the way in the state of the art electronics laboratory. Each robot is to navigate the course shown below starting at the left and navigating to the finish line at the bottom right. This is identical to a courses used in international robotic competitions. If you would like to see a video clip of years past course activities, schedule, and weekly schedule go to http://astro.temple.edu/~helferty/ee01_06/index and also see: http://engineering.temple.edu/summer-programs/robotics

**COST**

$550

Deadline for returning application form is MAY 15, 2015.

**FOR MORE INFORMATION:**

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