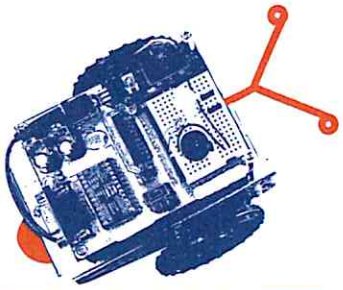
TCNJ
THE COLLEGE OF NEW JERSEY

FUNDAMENTAL SESSION 1
JULY 15-JULY 20, 2018
FUNDAMENTAL SESSION 2
JULY 22-JULY 27, 2018
Both sessions cover the same curriculum.



2018 TCNJ ROBOTICS SUMMER CAMP

Apply by May 11, 2018!

ENTER
THE WORLD OF ROBOTICS!

High School students are invited to apply for an intensive summer Robotics Camp offered by the Department of Electrical and Computer Engineering (ECE) at The College of New Jersey (TCNJ). TCNJ offers a superior learning environment, and these experiences take place in specialized laboratories.

The intent of the camp is to motivate the most creative minds of a new generation of prospective engineers to become global leaders in an increasingly technological world. The program aims to create a community of students who participate in and contribute to an intensive and powerful residentail college academic experience delivered by distinguished educators and professionals.

The participant will work with ECE students and professors, and interact with professional engineers from the Industry.

WHO
SHOULD APPLY?

High school students that rank at the top 30% of their class, have an interest in robotics or engineering, and have successfully completed one year of college prep mathematics.

WHAT
DO STUDENTS DO?

Students will build, program, and use their own robot. Each participant will receive a robotics kit, and at the end of the camp they get to take home their own robot. The Kit provides everything necessary to build an expandable robotics platform. During the process of building their robot, students get to perform a series of activities, which culminate with a robotics competition.

TYPICAL DAY
AT CAMP INCLUDES:

- Interesting ECE lecture sessions
- Hands-on robot building, programming, and utilization
- Site visits to facilities
- Fun evening activities

Find us at 'TCNJ Robotics Summer Camp'

Questions? kims@tcnj.edu

WHAT IS ROBOTICS?

Robotics is the science and technology of robots, their design, manufacture, and application. It requires a working knowledge of electronics, software, and mechanics. Before the coining of the term robotics, there was interest in ideas similar to robotics (namely automata and androids) dating as far back as 400 BC. Robotics are used in industrial, military, exploration, home making, and academic and research applications. Although the appearance and capabilities of robots vary vastly, all robots share the features of electronic sensors, and a movable structure under some form of autonomous electronics, computer, and software control.

TCNJ ROBOTICS CAMP:

Students will build, program, and use their own robot. Each participant will receive a robotics kit, and at the end of the camp they get to take home their own robot. The Kit provides everything necessary to build an expandable robotics platform. During the process of building their robot, students get to perform a series of activities, which culminate with a robotics competition.

The activities introduce motor control and interfacing your robot to the human world to avoid objects, following light, provide sound and light feedback, communications, and computer vision.

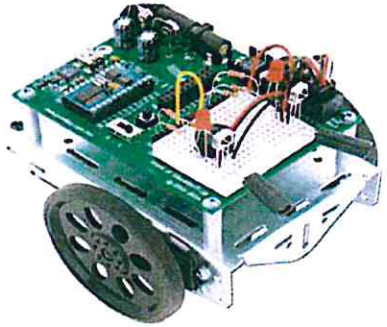
WHO SHOULD APPLY?

Eligible camp participants are high school students who rank at the top 30% of their class, have an interest in robotics or engineering, and have successfully completed one year of college prep mathematics (preference will be given to those who have completed algebra).

A TYPICAL DAY AT CAMP INCLUDES:

- Interesting electrical and computer engineering sessions each morning and afternoon, and their application to your robot.
- Hands-on robot building, programming, and utilization facilitated by TCNJ faculty and students.
- Site visits to facilities where state of the art electronic and computer technology is being developed, and meeting with practicing engineers.
- Fun evening activities.

At the end of the week, a prominent guest speaker from the Electronics/Computer Industry will give a special presentation about their organization and the industry.



LOCATION & COST

The camp will be held at the beautiful campus of The College of New Jersey, Ewing, NJ. Participants stay in a TCNJ air-conditioned residence dorm and are chaperoned by electrical and computer engineering students.

Program Dates:

Fundamental Session 1: July 15-July 20, 2018

Fundamental Session 2: July 22-July 27, 2018

Cost of the camp:

$2,150. All students accepted to the camp will receive a $500 scholarship.

TOTAL COST: $1,650 *(plus a non-refundable $29 application fee)*

This covers robot kit, electronic parts, tuition, educational materials, room and board, and entertainment expenses. Camp participants must provide their own transportation to and from Ewing, New Jersey.

Limited number of seats are available for this program. Interested students should submit an application as early as possible. Apply online at:

http://www.drseungkim.com/RoboticsCamp.html

OR http://www.tcnj.edu/~eceng/robotics

All applications must be received by May 11, 2018

All applicants will be notified by May 18, 2018

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The intent of the camp is to motivate the most creative minds of a new generation of prospective Electrical and Computer Engineers to become global leaders in an increasingly technological world. The program aims to create a community of students who participate in and contribute to an intensive and powerful academic experience delivered by distinguished educators and professionals.

Camp participants will be introduced through a residential College academic experience to the exciting field of Electrical and Computer Engineering, and will learn topics not traditionally taught in High Schools such as Microcontroller Programming, Sensing Systems, Digital Electronics, and more.

The participant will work with Electrical and Computer Engineering students and professors, and interact with professional engineers from the Industry.

TCNJ offers a superior learning environment, and these experiences take place in specialized laboratories.

TCNJ THE COLLEGE OF NEW JERSEY

CONTACT INFORMATION

Dr. Seung-yun Kim

Electrical and Computer Engineering

The College of New Jersey

P.O. Box 7718, Ewing, NJ 08628-0718

TELEPHONE: (609) 771-3443

EMAIL: kims@tcnj.edu

Electrical and Computer Engineering

The College of New Jersey

2000 Pennington Road

Ewing, New Jersey 08628-0718

This Summer, get kids to turn off the TV and tune into a new world of learning and fun.

ROBOTICS

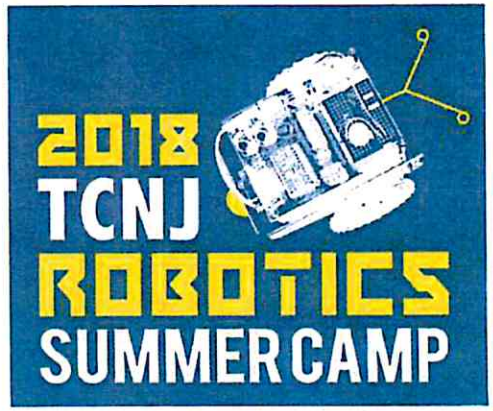
Summer Camp

Fundamental Session 1:

July 15 - July 20, 2018

Fundamental Session 2:

July 22 - July 27, 2018



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