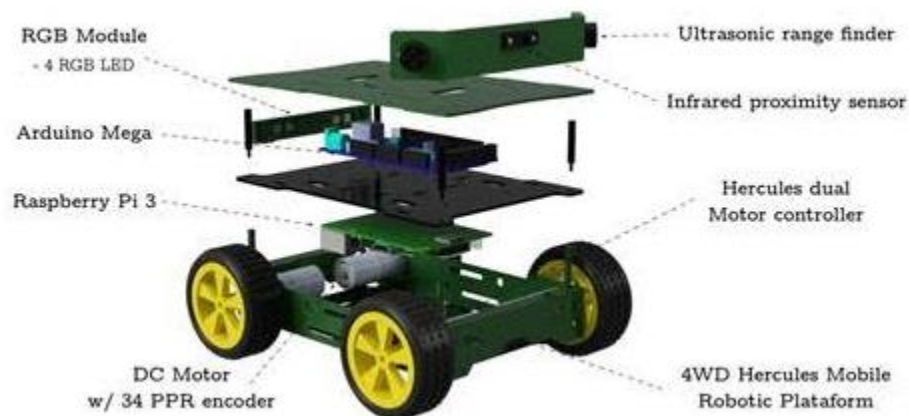


## ROBOTICS SUMMER CAMP

June 16 to 27, 2018 - 09AM to 05PM (daily)

**APPLICATION DEADLINE: May 27 2018**

[Engineering Institute of Coimbra](#) - Portugal



**Explore engineering and robotics this summer!**

Are you up for something new and exciting to do this summer?

**How about designing, building, and programming a robot?**

The intent of the camp is to motivate the most creative minds of a new generation of prospective, Electrical, Mechanical 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. Students will explore the exciting world of robotics. They will design and program robot using real robots through hands-on challenges. Come and join the fun this summer. Space is limited. Camp participants will be introduced through an 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, Arduino, ROS and more. Robotics seeks students enrolled in a school or summer program who are excited to participate in a competition which challenges them with Team Work. Throughout the course, students are introduced to programming languages including C++, advanced programming concepts such as ROS and communication, basic API development, system concepts such as I2C and UART serial interfaces, PWM motor control, and sensor fusion to improve robotic navigation and localization. The courses are designed to apply basic engineering, math and science principles learned in previous high school courses.

**Compete:** Prepare and participate in robot competition!!

**Awards:** T-Shirt & Certificate of Completion

## A TYPICAL DAY AT CAMP:

- 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 faculty and students
- A prominent guest speaker from the Electronics/Computer Industry
- Critical thinking and problem-solving skill
- Programming mobile robots to accomplish missions and challenges

**APPLICATION DEADLINE: Register by May 27<sup>th</sup> 2018**

## WHO CAN COME?

Students are welcome from any organization, school.

## WHAT SHOULD YOU BRING?

You need to bring a laptop.

## WHAT WILL WE DO?

The overall goal is to create robots. We will be leading the classes for Robot construction and workshops.

Limited size enrollment. Enroll early to secure a spot.

## Information about Registration || 250€ NON-REFUNDABLE

Early Registration: 200€ (February 16 to March 31)

Registration 250€ per session (April 1 to May 27)

Late Registration 300€ (June 1)

Multi-student discount (50€ off per student after the 1st student)

## REGISTRATION

IPC INSTITUTO POLITÉCNICO COIMBRA  
Nº Conta: 6349 Moeda de Denominação: EUR  
NIB: 078101120000000634936  
IBAN: PT50078101120000000634936  
BIC: IGCPPTPL

Please send copy of the payment receipt and contact information: Full name; E-mail; Address; Phone number; Tax number (if needed).

**Detail information:**

- Participant must bring their own laptop;

**Language of instruction: English.**

For More Information visit our website: [www.isec.pt](http://www.isec.pt) || [ISEC](#)

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