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## Weekend Academy workshops for students and teachers



Ruben Balmaceda with his June 2016 Python PyGame workshop participants

### Building and Programming Autonomous Robots: June 12-16, 2017

10:00 am to 4:00 pm, room PG6-102 and PG6-105. Early registration (April 17 to May 15) is open to high school teachers and students only. In this 5-day sequence, FIU Ph.D Student Greg Reis will teach you to assemble and program an autonomous robotic car, using the *Arduino-based Elegoo UNO Project Smart Robot Car Kit*. You will write code to help the robot avoid obstacles and navigate a maze. Prerequisite: At least one semester of Java, C, Python, or C++ programming. Limited to 22 participants, where registration priority is determined by the date and time we receive your registration check. The \$55 nonrefundable registration fee covers daily lunch, and parking.

Each pair of students will be provided a robot kit to use only in class. Instead, we recommend you [purchase your own kit on Amazon.com](#) before the workshop begins so you can take your completed kit home when the workshop ends. [Register online here](#), write a \$55 check payable to "FIU" and send it to the following address: Robotics Workshop (Irvine), FIU School of Computing and Information Sciences, Florida International University, 11200 SW 8th St, room ECS 354, Miami, FL 33199. Please write the name of the workshop participant on the check. After your check is received, you will receive a confirmation by email. If you are a public school teacher, your registration check will be returned to you if you attend all 5 days of the workshop.

### Python Game Programming Workshop: June 19-23, 2017

This 5-day workshop, taught by professional software engineer Ruben Balmaceda, introduces you to the Python programming language and game programming using the popular PyGame library. Open to FIU students and K-12 teachers and students. No prior programming experience is required, but a semester of Java programming background is helpful. Location: Room ECS 141 on the FIU Madique campus, 9:00am--4:00pm. Limited to 30 participants. The workshop has a required, nonrefundable registration fee of \$50, which includes lunch and parking. [Register here](#), write a \$50 check payable to "FIU" and send it to the following address: Python Workshop (Irvine), FIU School of Computing and Information Sciences, Florida International University, 11200 SW 8th St, room ECS 354, Miami, FL 33199. Please write the name of the workshop participant on the check. After your check is received, you will receive a confirmation by email. If you are a public school teacher, your registration check will be returned to you if you attend all 5 days of the workshop.

[View our Photo Gallery](#) [View descriptions of recent workshops.](#)

The **Ultimate Software Academy for CS Education** offers workshops for high school and college students, and K-12 teachers. The workshops include hands-on demonstrations of research by FIU computer science professors, problem solving techniques, and game programming.

Instructors for Spring 2017:

- Greg Reis, FIU robotics Ph.D. candidate
- Ruben Balmaceda, Software Engineer, Assurant Inc.
- Jamie Gant, Award-Winning MDCPS Teacher/Trainer
- Giuseppe Vietri, FIU Programming Team Captain

Unless otherwise stated, events are held at the FIU Madique campus (SW 8th Street). Metered parking is available on the parking garage's ground floor.

The **Ultimate Software Academy for Computer Science Education** is supported by a 10-year \$1M grant from [Ultimate Software](#), and sponsored by the [FIU School of Computing and Information Sciences](#). Students may bring their own laptops or use FIU's lab computers. Contact email: [irvinek@cs.fiu.edu](mailto:irvinek@cs.fiu.edu)