

# Summer Camp Opportunity

## Raspberry Pi : Introduction to Computer Programming



Who: Anyone interested in learning about computer programming, ages 12-17

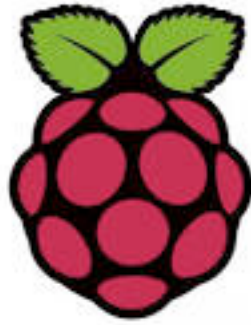
When: 9:00 am to 3:00pm, Monday, July 20th through Friday, July 24th

Where: Central Presbyterian Church, 70 Maple Street Summit NJ

How: **Contact Emma Cohron for an application at 908-219-9209 or [dcochron@comcast.net](mailto:dcochron@comcast.net)**

Sponsors:





Instruction will be based upon the Raspberry Pi, an ARM (advanced RISC machine). Participants can expect to take away a firm grounding in computer science and will leave with a fully functioning computer to take home and continue exploring after the course.

Topics covered will include:

- Introduction to the Raspberry Pi
- Overview of computer architecture (what makes computers work)
- Sonic Pi- making music with your computer
- Introduction to Python
  - Why Python?
  - Variables and types
  - Basic math operators
  - Conditionals
  - Loops
  - Working with strings
  - Data structures
- Interactive programming through games
- Making your computer talk to you
- Minecraft- Pi edition
- Raspberry Pi resources
- Where to go from here