



Raspberry Pi Course

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Introduction:

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Engineering Design Process:

- Engineering Design Process
- Ask: What does the world need?
- Research: What problem will your dev team solve?
- Imagine: What is your ideal product?
- Plan: What supplies will you need?
- Create: How will you build this item?
- **Engineering Design Process Quiz**

Raspberry Pi Basics

- Parts of a Raspberry Pi
- Setting up your Raspberry Pi
- Getting Started with NOOBS
- Plugging in your Pi
- Troubleshooting Issues with Booting your Pi
- Raspbian and Demo Programs using the Command Line
- **Raspberry Pi Basic Quiz**

Coding Tutorials: Learn Python

- Codecademy Account Instructions
- Intro to Python
- Codecademy: Learn Python
 1. Python Syntax
 - Python Syntax Tutorial
 - Python Syntax Reading Guide
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8. Loops
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- 9. Course Test: Python**
 - Sonic Pi Tutorial
 - Getting Started with Git
 - GitHub Account Creation
 - **Coding Tutorial Test**

Starting Your Dev

- Physical Computing with Python
- Create, Test and Improve

- **Starting your Dev Project Quiz**

Submit your Dev Catalyst Competition Project

- End of Course Survey
- Dev Catalyst Competition Entry Form

Professional Skills

- Marketing yourself to potential employers
- LinkedIn Account Creation
- Highlighting your Dev Project in LinkedIn

Whats Next?

- We recommend you take this time to further sharpen your dev skills and allow a different dev team in your class the opportunity to redesign your Raspberry Pi project. Remember that the Engineering Design Process is a cycle which focuses on teamwork and design. By allowing classmates who are not on your dev team the opportunity to redesign and collaborate on your project, the better your product will become.