



ROBOTICS: BUILDING AND PROGRAMMING HUMANOID ROBOTS



PROGRAM OVERVIEW

Delve into the fascinating realm of robotics with our Humanoid Robots workshop, designed to introduce participants to the exciting world of humanoid robotics and its applications.

PROGRAM HIGHLIGHTS

- Explore the principles of humanoid robot design and functionality
- Learn how to program humanoid robots to perform various tasks and movements
- Engage in hands-on activities and challenges with humanoid robot kits
- Collaborate with peers to design and build custom humanoid robot projects
- Showcase robot creations and participate in robot competitions

PROGRAM DETAILS

- **Duration:** 6-week workshop
- **Schedule:** 2 Days a week, 2.5 hours per day
- **Age Group:** for ages 14+
- **Prerequisites:** Basic understanding of robotics concepts recommended, no prior experience required
- **Location:** eCode Learning Center
- **Format:** Interactive sessions combining instruction, hands-on experimentation, and project-based learning

PROGRAM OBJECTIVES

- Introduce participants to the fundamentals of humanoid robot design and engineering
- Develop programming skills through hands-on experience with humanoid robot kits
- Foster creativity and problem-solving abilities through robot design challenges
- Cultivate teamwork and collaboration skills through group projects and competitions
- Inspire a passion for robotics and STEM (Science, Technology, Engineering, and Mathematics) disciplines