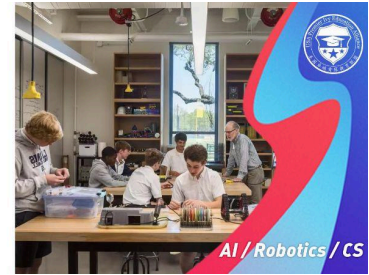




# Mayflower A-STEM Academy



## Robotics & AI Summer Camp

### Objectives

- **Master advanced skills** in designing and building robotic systems by integrating mechatronics hardware with AI-powered software.
- **Enhance creative thinking** and problem-solving abilities through immersive, hands-on projects.
- **Develop leadership, teamwork,** and communication skills through collaborative capstone projects.

### Program Highlights

#### ◆ Empowering Future Innovators

Through our robotics and AI program, students gain the knowledge, skills, and confidence to explore the rapidly advancing world of intelligent technology and automation.

#### ◆ Exceptional Preparation for STEM Success

Students are equipped to excel in university-level research and prestigious STEM competitions such as the IEEE Micromouse Competition, Regeneron ISEF, and the Science Talent Search.


#### ◆ A Competitive Edge in College Admissions


This program helps students build impressive portfolios that showcase academic excellence, leadership, innovation, and a passion for STEM—making them stand out in the college admissions process.



卓越青藤教育 piea-edu.org  
咨询电话917-886-7101, WeChat (微信): 1047179223

## Dates & Schedule

 17 Dates: July 7, 2025 – July 25, 2025

 Time: 9:00 AM – 5:00 PM (with a two-hour lunch break)

 Location: **FDU (Fairleigh Dickinson University)**, Teaneck campus, **New Jersey**

## Weekly Format:

- Monday–Thursday: In-person lectures and hands-on lab sessions
- Fridays: Field trips or online guest seminars

## Course Contents

- Week 1 (7/7–7/11):  
Robotics Basics – Arduino microcontrollers, sensors, motor control
- Week 2 (7/14–7/18):  
Advanced Topics – Raspberry Pi, computer vision, artificial intelligence
- Week 3 (7/21–7/25):  
Capstone Project – Students design, build, and test autonomous robots in **preparation for the IEEE Micromouse Competition at MIT in October 2025**

## Tuition & Fees

- Tuition: \$600 per week
- Materials Fee: One-time \$200 fee (includes a multimeter and full robotics kit for continued learning after the camp)
- Early Bird Discount: 10% off if registered by May 1, 2025

## Eligibility

- Rising 9th–11th graders with strong academic performance
- Familiarity with AutoCAD, C++, or Python is helpful but not required



卓越青藤教育 piea-edu.org  
咨询电话917-886-7101, WeChat (微信): 1047179223

## 机器人与人工智能夏令营

### 🌟 项目亮点:

#### ◆ 赋能未来创新者

通过机器人与AI课程, 学生将掌握快速发展的智能科技与自动化领域的相关知识、技能与信心。


#### ◆ 为STEM成功做好卓越准备


我们的学生将具备参与大学级研究和著名STEM竞赛的能力, 如 IEEE 微型鼠标竞赛、Regeneron ISEF、科学人才搜索大赛等。

#### ◆ 助力大学申请脱颖而出


该项目帮助学生打造优秀的个人作品集, 展现学术实力、领导力、创新能力和对STEM的热情, 为大学申请增添强有力竞争优势。

### 课程安排与时间表

 日期: 2025年7月7日 ~ 7月25日

 时间: 每天上午9点至下午5点 (中午两小时午休)


 地点: **FDU (Fairleigh Dickinson University), Teaneck 校区** 新泽西

 每周安排:

- 周一至周四: 现场讲座与实验操作

- 周五: 实地考察或线上嘉宾讲座

#### 课程内容

- 第1周 (7/7 ~ 7/11): 机器人基础 —— Arduino 微控制器、传感器、电机控制
- 第2周 (7/14 ~ 7/18): 高阶内容 —— Raspberry Pi 单板电脑、机器视觉与AI
- 第3周 (7/21 ~ 7/25): 毕业项目 —— 设计、建造并测试自主机器人, 为2025年10月在MIT举行的IEEE微型老👴走迷宫比赛做准备
-  费用说明
- 学费: \$600/周
- 材料费: 一次性\$200 (包含万用表与机器人套件, 可在课程结束后继续使用)
- 早鸟优惠: 2025年5月1日前报名享受9折优惠

### 报名资格

- 面向即将升入9-11年级、成绩优异的高中生
- 熟悉 AutoCAD、C++ 或 Python 编程者优先 (非必需)