



## Microcontroller Fundamentals with Microcade Workshop



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### Workshop Overview and Components

Teams (of either one or two) will participate in a workshop to build their own micro arcade system based on an Arduino board. Construction will involve using components such as LCD screens, speakers, and LEDs. After construction, participants will connect their laptop to the micro arcade, download a game of their choice, and modify the menu of their arcade so that the new game shows up on that menu.

Teams will be provided with all the necessary components to construct the arcade. Following the workshop, each team will have the working micro cade to take with them at the end of the workshop.

## **Team Composition**

Individuals or teams of 2 students can register for this competition.

## **Skills**

Some prior knowledge or experience with basic soldering on a circuit board is helpful.

## **Resources**

A student laptop with Internet access, the official Arduino IDE installed ahead of time and a working Web Browser software are required. Firefox and Chrome browsers are recommended. Any necessary tools will be provided.