

STEM Projects with TI-84 Plus CE

Digital Mood Ring, Smart Irrigation, Pet Car Alarm, Making Music with Code, Four-Chambered Hear, Some like it Tepid

Learn to do the project yourself

Step 1: Get a practice kit from the TI STEM Team.

Go to www.TIstemProjects.com. Click on the Get Started Now button. Then fill out the form to begin the conversation with the TI STEM Team.

Step 2: Do the following:

A. **10 Minutes of Code with the TI-Innovator Unit 1.** These are step-by-step instructions that will give you a foundation for creating, running and editing TI-Basic programs with the TI-Innovator Hub. Follow this [link to 10 Minutes of Code for TI-Innovator](#). Click on Unit 1 and then click step by step to go through the skill builders. (Note: Units 2 and 3 are also useful.)

B. **Digital Mood Ring Project.**

We have found this to be a great first project for doing feedback and control systems. The topic is fun and the set-up is not intimidating.

You will cover foundational concepts for programming and for feedback and control systems. After doing this project both adults and students say that the more advanced projects no longer look so overwhelming.

Make sure to **download and follow the “By Challenges” Teacher document** and example programs at this [link to the Digital Mood Ring project](#).

Also, **we highly recommend a set of YouTube videos** that we created based on workshops with teachers preparing to lead summer camps. Follow this [link to a set of short videos for the Digital Mood Ring project](#).

C. **You are ready for the other projects.**

[Pet Car Alarm](#)

[Smart Irrigation](#)

[Making Music with Code](#)

[Four-Chambered Heart](#)

[Some Like it Tepid](#)

Download the teacher document, example programs and any other files from this page. Work through the challenges in the teacher document.

See other projects at www.TIstemProjects.com

Contact stem-team@ti.com with questions or comments.