

EDTE 194
week7madecodeMicrobitUnitProject - Reflection
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For this project, we decided to do our version of the physical alarm project. We chose this project because it allows us to explore the use of external equipment as well as Micro:bit's other features like radio and/or Bluetooth connection. The project also has plenty of variability in terms of design and output.

Our alarm system makes use of the pins to establish a circuit and to connect an LED as an input/output option. In order for the Micro:bits to communicate with each other, we use radio to send string signals between Micro:bits.

We are particularly pleased of how we were able to incorporate the use of two Micro:bits with one functioning as a remote control and the other being the physical alarm system. We also decided to use a non-metallic box instead of a door for the purpose of demonstrating the system.

The difficult point in this program is figuring out how the two Micro:bits will communicate with each other. After watching a few instructional videos and program examples on makecode.microbit.org as well as using the help feature of makecode.microbit.org, we were able to implement our design. It was also difficult to make changes or debug the program because we would have to make changes on both Micro:bits. We were also trying to have the alarm unit be able to reset the program and reset the Micro:bit 2 but were unable to do so.

During our in-person meeting, we would like to get feedback/suggestions on possible improvements on the system. We are also looking on some feedback on coding a reset sequence from the alarm unit.