

Voice Recorder

ECE153B Project Proposal

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Overview

We propose making a voice recorder that will record a five second message when the user presses a start button. A countdown timer will be shown with LEDs. The user will then be able to playback the voice data on their computer.

Peripherals

- LEDs (on project board)
- Push button (on project board)
- Microphone

Software Design

The program will start when the user presses the button to start recording. After the button is pressed, five LEDs will light up and one will turn off each second. RTC will be for this timing. The microphone input will be controlled using I2C and will begin receiving data.

Goals

- Allow users to record five second messages by pushing a button
- Display the time remaining to record the message
- Playback the recording on the user's computer

Group Responsibilities

Bradley will focus on implementing the start button and led countdown and Jun will focus on interfacing the microphone and storing/moving the data.