

# Voice Memo Converter

ECE 153B Project Proposal

By Yini Wang, Du Ning, Alexis Yang

## **Overview**

We propose to make a memo converter which allows users to record 5 seconds voice message and then converts it into written language on the screen. The users will be able to replay the recorded message and check it on the screen.

## **Peripherals**

- Microphone
- Button
- LED
- UART
- Timer / RTC

## **Software Design**

The program will start recording after the users push the button. Meanwhile, the RTC will count 5 times(1-second increment). The LED will blink when the record ends.

## **Goals**

- Enable to record the voice message.
- Enable RTC to count to 5.
- Enable LED to blink when RTC equals 5.
- Enable to convert the voice data.
- Enable to display the voice message on the screen.
- Enable to replay the voice message.

## **Group Responsibilities**

- Yini is responsible for handling the voice data and convert them into written language and displayed on the screen.
- Du Ning is responsible for RTC and LED part.
- Alexis Yang is responsible for recording the voice message(data).