# ESP32\_WROVER

Graphical user interface, text, application, email

Description automatically generated

This file is used to trigger the main functions on the ESP32.

We include the “arduino-timer.h” library (which is also used on the Arduino Mega) to deal with functions we need to run in an interval or a timeout.

We then define the “timer” variable and set it using the “timer\_create\_default()” which will return the instance we can use for the intervals.

We include the “VoiceCommands.h” file, which contains the code to accept commands from the App we use on the phone.

We run the setup() function, which runs when the ESP32 boots up.

This will trigger the “Serial.begin()” function on BAUD 9600 that allows us to receive errors and info on the Serial monitor from the Arduino IDE.

It will also run the “voiceCommandSetup()” function, which will do some initial setup for the voice command Bluetooth in “VoiceCommands.h”.

We then run the main “loop()” function.

This function will run “timer.tick()” so the timer can keep track of how much time is going by, so it can trigger tasks when it needs to.

We also trigger the “listToVoiceCommands()” defined in “VoiceCommands.h” which will handle all the incoming voice command from the app, and passes them to the Arduino Mega through the Serial pins.