

PROJECT SSCAW

**Security System for Cardiac Arrest (& other emergencies) in
Washroom.**

For T2-22-23-EC 212P//Analog Circuits Lab

Thursday, Apr 20, 2023
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Is there a reason why cardiac arrests often happen in the bathroom?

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Why Does Cardiac Arrest Happen in the Bathroom?



Medically reviewed by Dr.
Payal Kohli, M.D., FACC —
By Kathryn Watson on May
6, 2021

Why are Heart Attacks in the Bathroom More Dangerous?

Having any type of heart-related emergency is a [scary](#) and dangerous situation. Heart-related emergencies in a bathroom setting however, are at a whole other level of dangerous.

You Are Alone

This may be the most obvious reason for being more dangerous. More times than not, while going to the restroom, you are by yourself. Adding to that, you will most likely have the door locked. This is, after all, a very private setting.

This occurrence is extremely dangerous, as you have no one present to witness the event and call 9-1-1. In this case, your chances of survival are slim to none.

Help is Delayed

In other instances, help is present, although delayed.

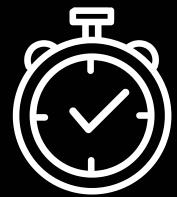
The Problem

Recovering patients and elderly people are at a high risk of facing sudden life-threatening emergencies while they are using the washroom.

At these times, the lock that protects their privacy becomes a huge hurdle for the caretakers to rescue them.

The Solution

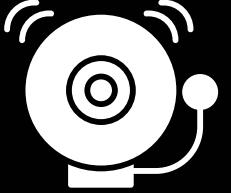
1



LOCK THE DOOR

While the person wants to lock, they choose 1 of 3 modes, urine, stool, and bath. The lock turns on and a timer of 4 mins, 10mins and 15 mins respectively is started

2



TIME ELAPSES

After the time is completed, if the lock is still not unlocked, indicator lights and siren will be on-ed inside the washroom for 30 secs.

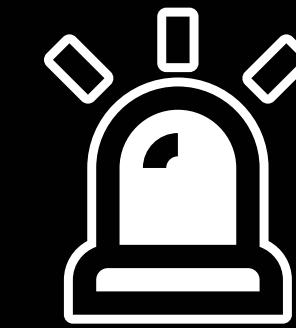
3



EXTEND THE LOCK

There are buttons all over the washroom, pressing which will extend the lock for another 5 mins and the process repeats.

4



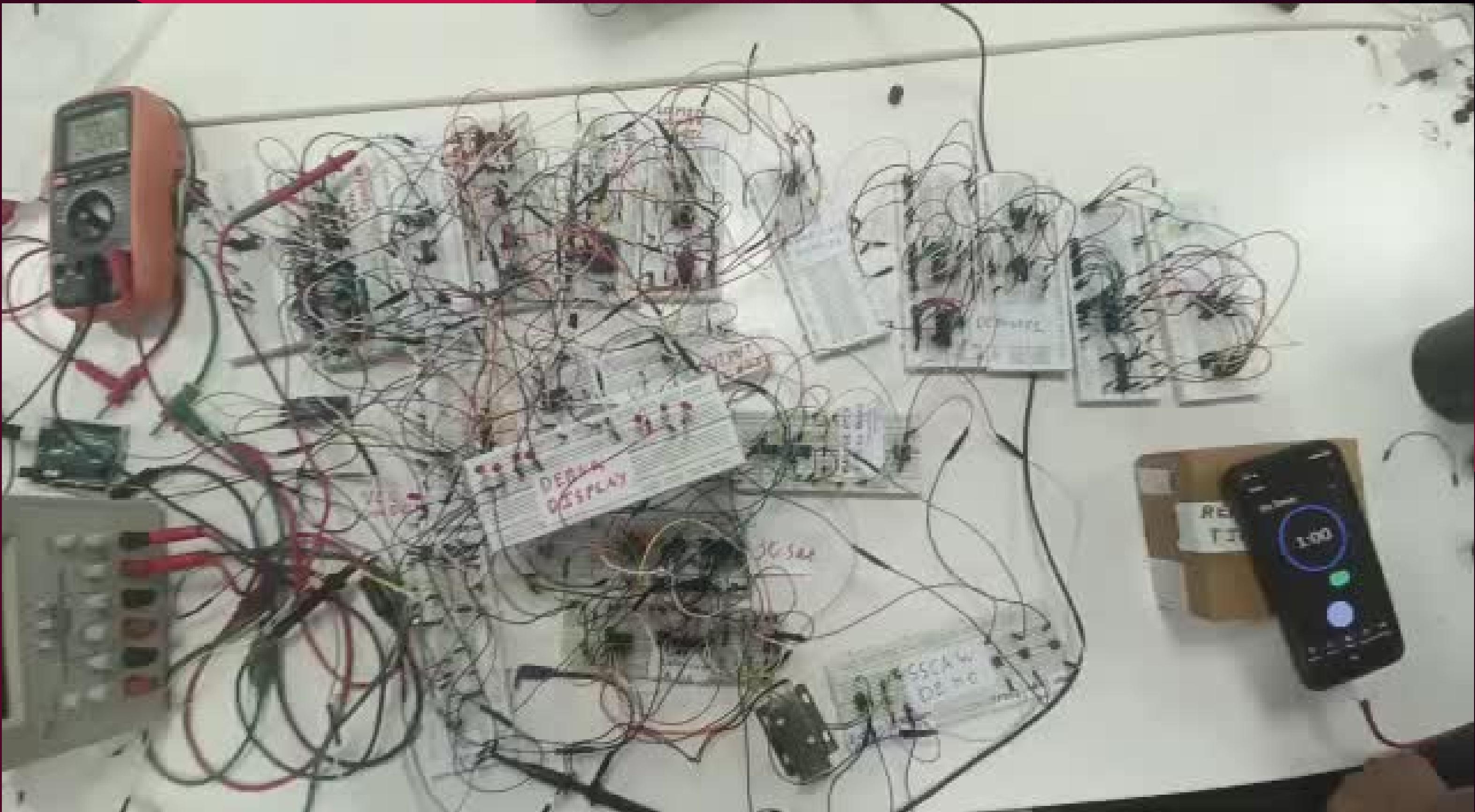
EMERGENCY!!

If the button is not pressed for 20 secs, then it means it's a potential emergency. Hence first the lock is unlocked then a siren is turned on outside to notify caretakers.

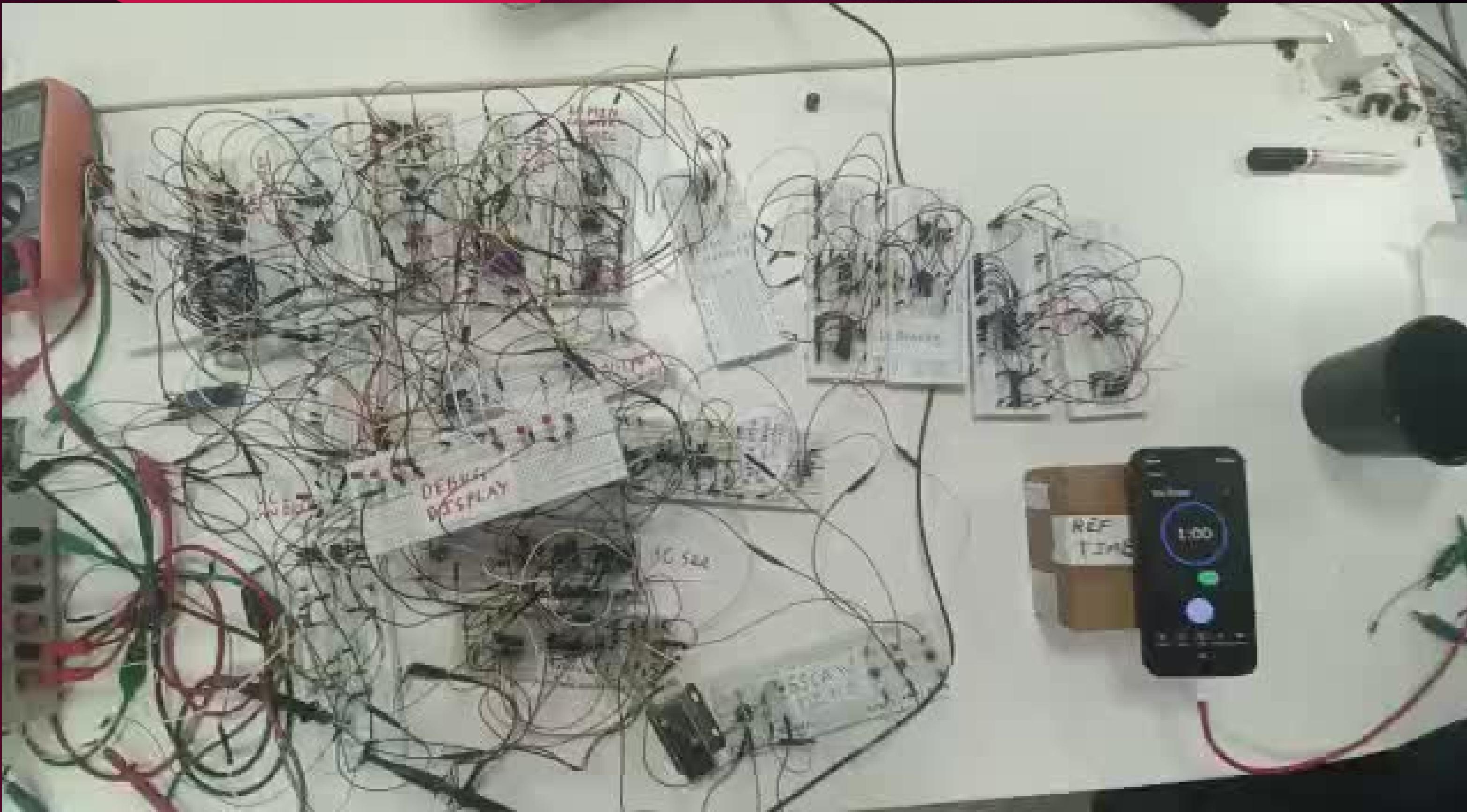
Circuit Explanation

Video Demonstration

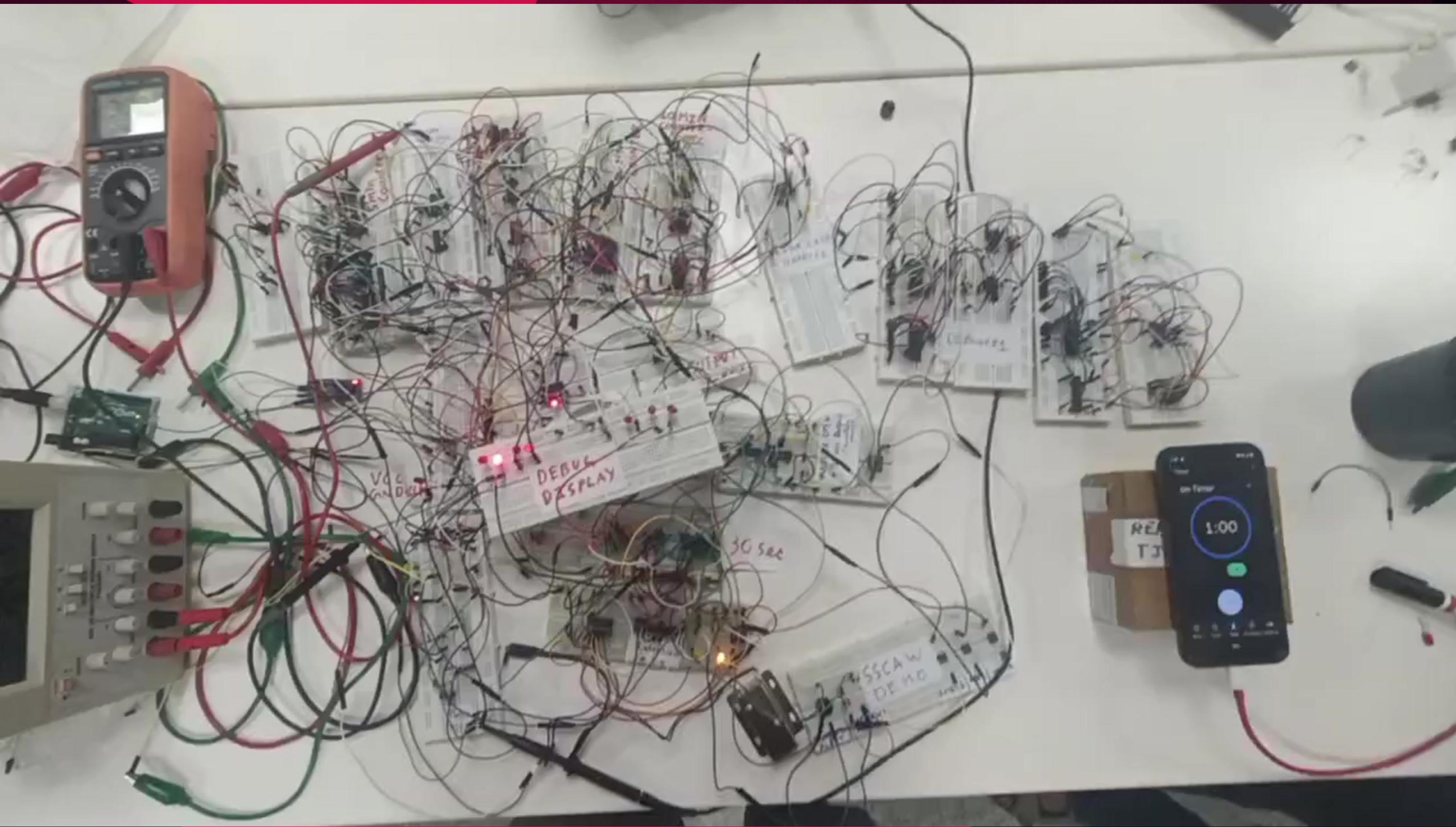
Normal Open



Emergency Open



Extend Lock



Thank You