

# Motion-deactivating my Alarm System

Boston University

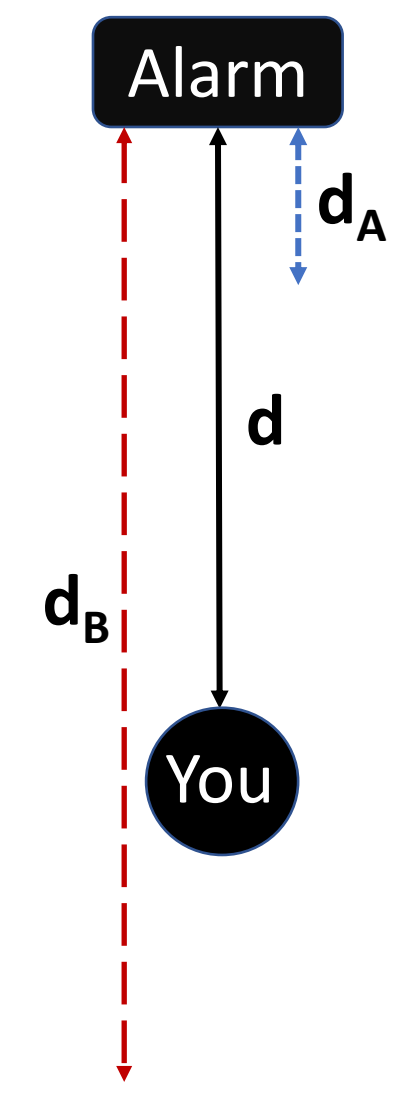
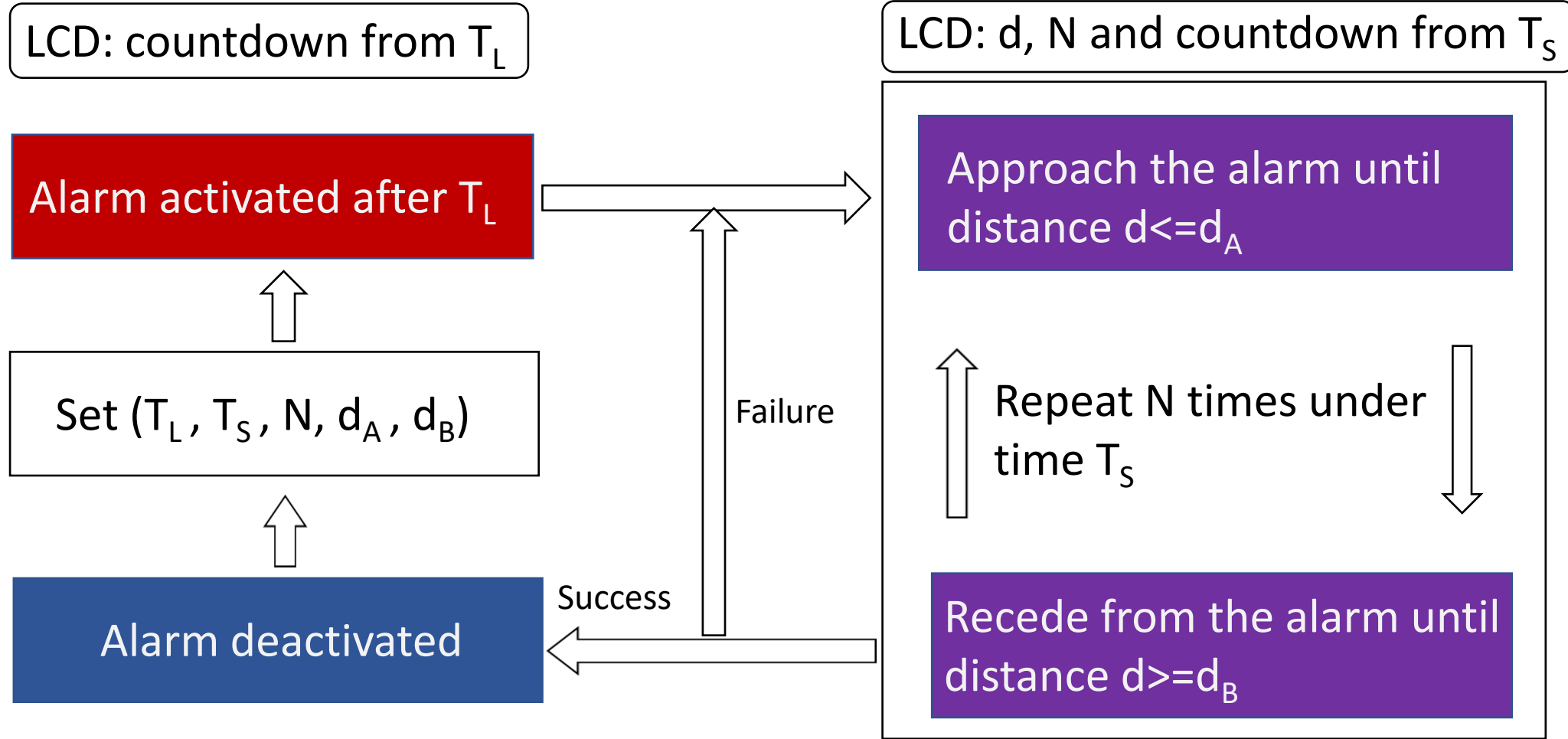
Physical Electronics Lab Open House: Project Showcase (04/29/2021)

Long-Hin Tang

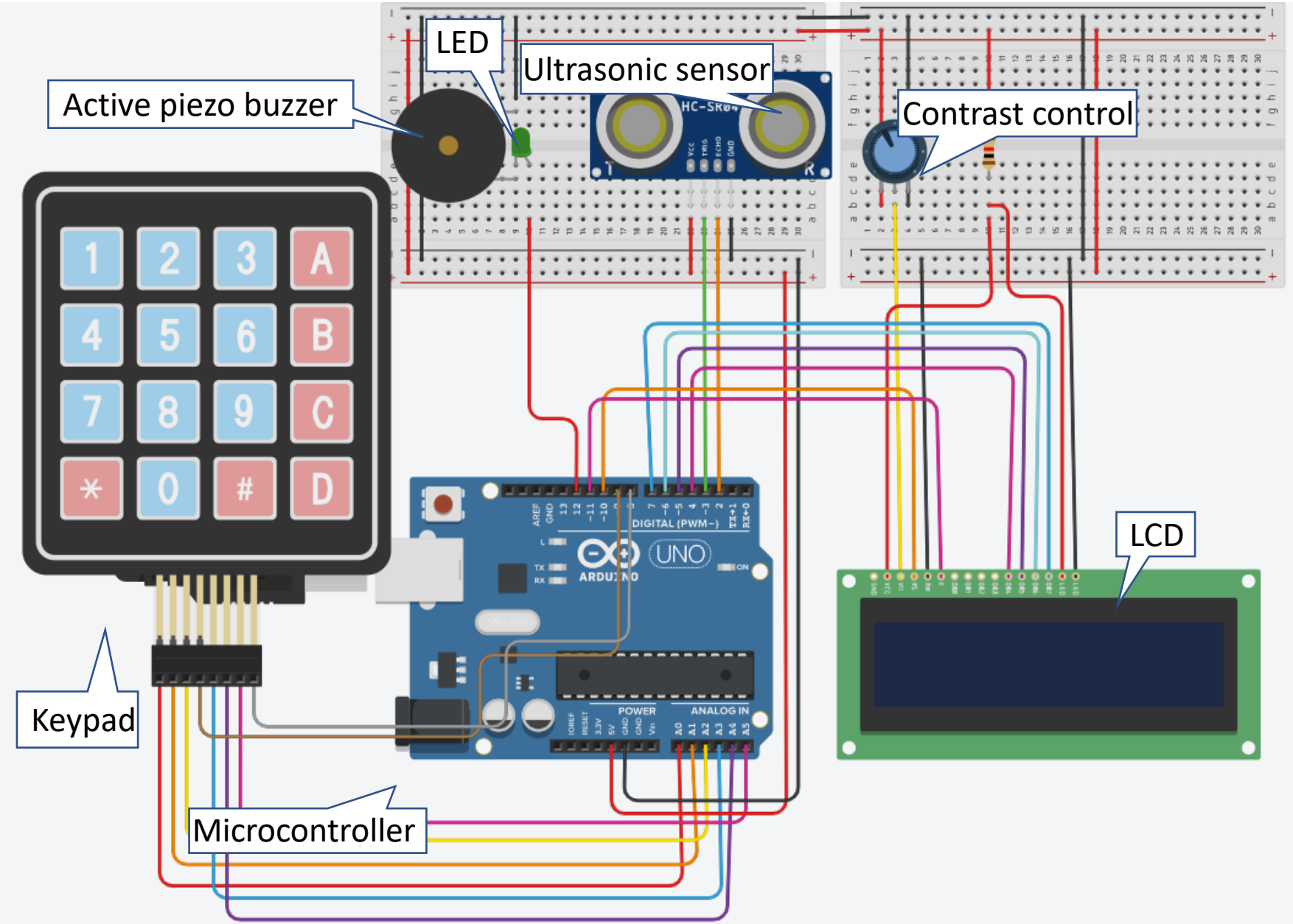
# Flow diagram

$T_L$ : The countdown time (long, e.g. in minutes) to alarm activation

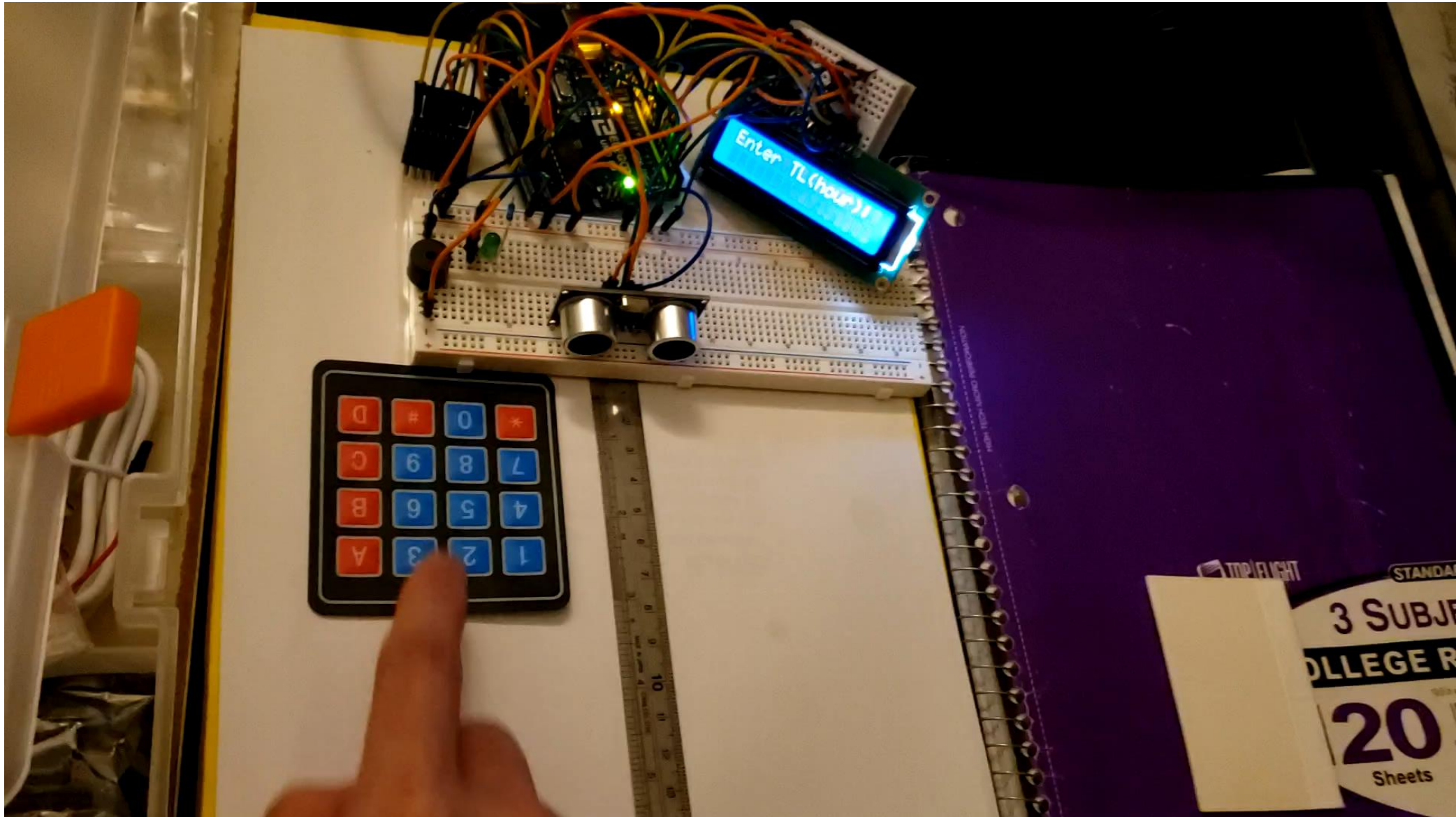
$T_S$ : The time limit (short, in seconds) under which the task has to be completed  $N$  times



# Electronic schematics



# Demonstration



# Improvements

- Correcting faulty reading
- Real-time Clock (RTC) module → local current time
- IR remote control for input