

**Student: 04 Au Ka Long**

## Objective/Background/Motivation

- *Massive workload(either work or studying)*
- *Late at home*
- *Don't want to do much when get back to home*
- *Forgot to turn off light when ready to bed*
- *Temperature of air con is never at best situation*
- *Wants a more relaxing bedroom*

## Existing Solution

- **Air con**
  - Heat sensor integrate on the air con
    - Not accurate
  - Time control, remote control(phone)
    - Doesn't work automatically
- **Lights**
  - Sound control, time control, remote control
    - Doesn't work automatically
- **Music**
  - Sound control, time control, remote control

When you get in bed and forget to turn off the lights



## Your Solution

- **AI detection using IR sensor**
  - High privacy than using camera
  - Detect movement ,posture and temperature of human.
- **With analysis of the above**
  - Best temperature
  - Correct time to turn on and off light
    - Protect eyes (auto turn on lights when using phone)
    - Turn off lights when ready to sleep
  - Play music automatically
  - Everything work total automatically in your needs
    - No efforts



## Future

- **Integrate more modules**
  - Infinity possibility for the best condition for bedroom
- **API to communicate with other IoT products**
  - Easy to extends
  - Compatibility with others
    - More competitive

## Resources Needed

- **IR sensor**
- **Simple IoT connector**
  - E.g.
  - Air con signal copier
  - Lights controller

