



# Cheers Third Sprint

Master Practical: Edge Computing and the Internet of Things - Team GAD

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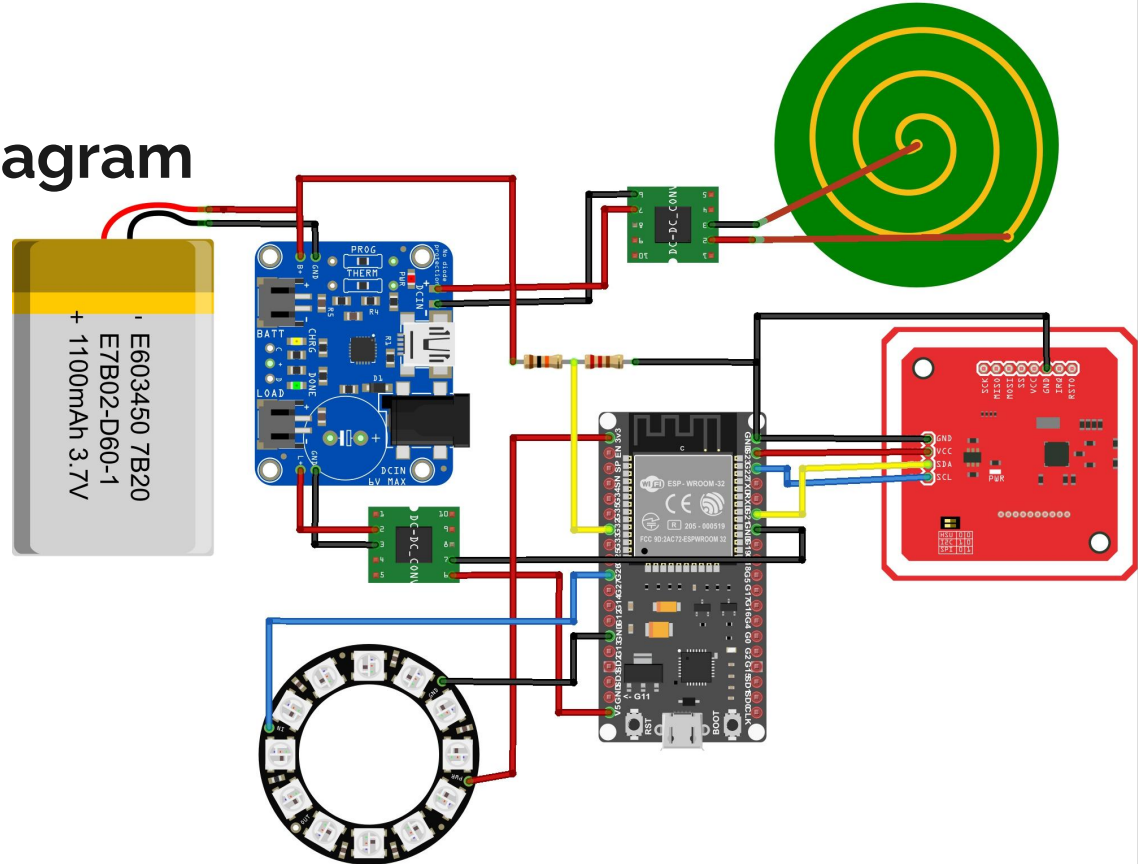


## Planned Tasks for Sprint 3

- Improve Hardware Prototype
  - Add battery and ZigBee
  - Fix NFC problem
- Expand gateway functionalities
  - Add a game
  - Reduce communication with the cloud
- Expand cloud functionalities

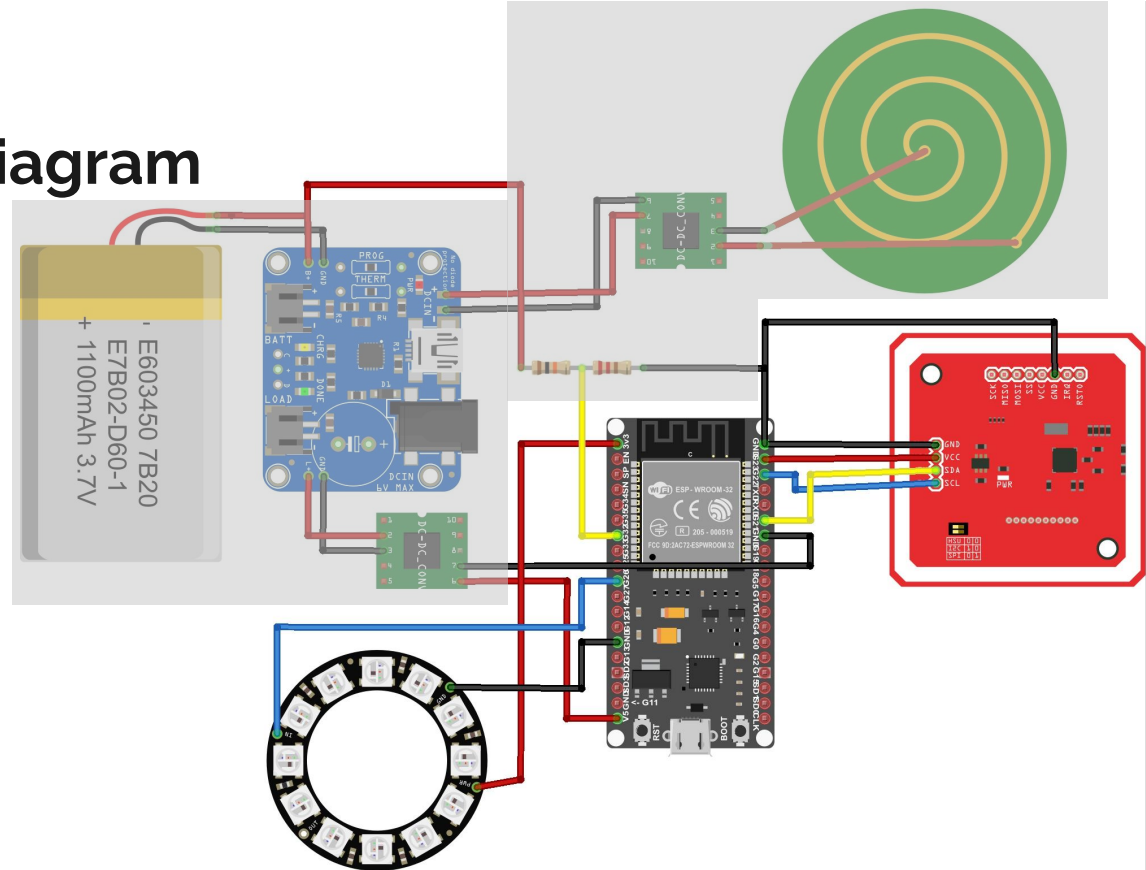
# Current Wiring Diagram

- Until now only on the pegboard
- Reduced setup for the demo



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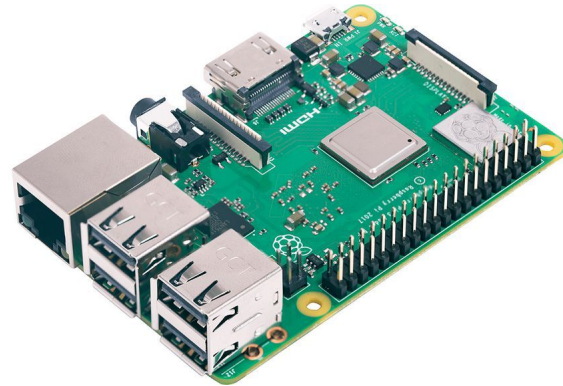
## NFC Modules and Case

- NFC modules work better when the cables are not behind them
- New Case
  - waiting for ZigBee
  - and Batteries



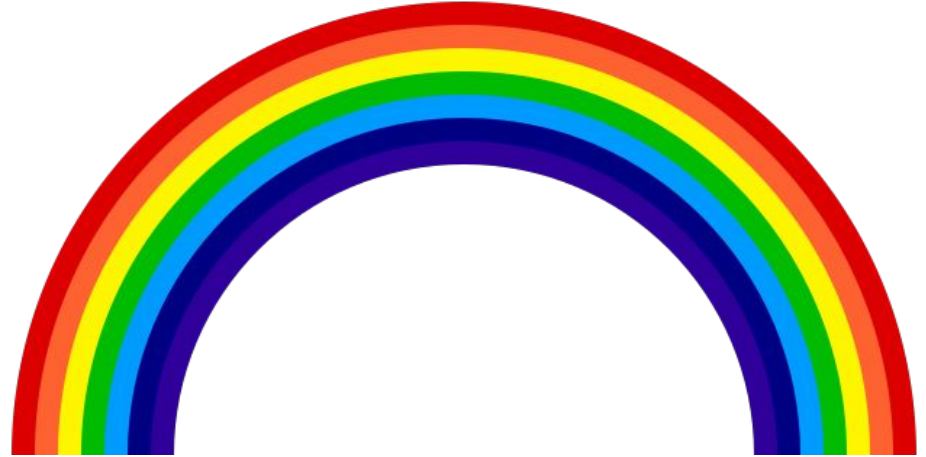
## Gateway Cloud Connection

- Database was added to the gateway
- Push data only to the cloud when user leaves the event (e.g. club)
- Decoupled cups with user



# Gateway Gamemode

- Light up according to the current promille
- Rainbow colors in relation to alcohol traffic violations
- Auto-update after purchasing new drinks





## New Future Work

- Reusable module in cup that detects drug concentration in liquids
- Communicate with ESP
- Alert club when detected and light up in a specific color + blink

→ Avoid getting drugged





## Problems in this Sprint

- ZigBee modules were detected but could not be used
- Zigbee holds us back a bit
- Some things just took much longer than expected
  - lack of experience



## Plans for the next sprint

- Finalize hardware prototype
  - 3D Case
  - maybe Zigbee
- Improve gateway functionalities
- Evaluate the whole system