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| **Group** 27 | Item Tracker |
| **Major:** | **Team members:** |
| CS | Mohammad Aljagthmi |
| EE | Ryan Ly |
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| CS | Donald Taylor |

**System Design Trades**

*Blue text (like this) should be removed from your submission. In principle, there will be multiple ways to realize the functionality required by each functional block in your system diagrams. From the system architecture diagrams, you should now compile lists of the design choices to be made for each functional block diagram and where appropriate the interconnects between them. You should not be making these choices now or even identifying options, but merely identify the decisions that should be made. Each design will be made (in a future worksheet) through a process of design trades between possible solutions.*

Hardware design trades

1. Adafruit HUZZAH ESP8266 breakout
2. Arduino MKR WiFi
3. Arduino MKR1000 WiFi
4. Raspberry Pi Zero
5. LED
6. Incandescent lightbulb
7. Compact fluorescent lightbulb
8. Battery power
9. Solar cells
10. Super-capacitors
11. Hydrogen fuel cell
12. Nuclear power
13. Ethanol
14. Hamster-wheel turbine power
15. Hand-crank turbine
16. Stationary bicycle turbine
17. Button cell batteries in series
18. Mobile Android device
19. Mobile IOs device

Software design trades

1. SW design trade 1
2. SW design trade 2
3. SW design trade 3

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