**Determining the Practical Range of Bluetooth Low Energy on an iPhone and a Raspberry Pi**

Thesis

1 Paragraph, what you’re doing, …etc.

Research

Background

Bluetooth Low Energy

Raspberry Pi

Real world applications

iBeacon in Apple stores

Ruby Slippers / Nest

Experiments

Describe experiments

Experimental setup

Describe all hardware and software, give version numbers, etc.

Describe your garage setup, …etc.

Results

Outdoor

Numbers and graphs

What graphs?

One graph for each pair of experiments (E.g., A1 and A2 on a

single graph)

Indoor

Numbers and graphs

🡪 For each graph: be sure to:

Title the top

Label both axes (including units)

Space permitting, label the points on the graphs

For stationary: Same types of graphs as outdoor, combined GHI

For movement: table, not graph

Analysis

What does the data / results mean

Outdoor stationary: What does “best” mean? Strongest vs. most consistent. Talk about which one was best.

Outdoor movement:

Indoor stationary: of G&H, best when iphone was moving (need to see what happens with I)

Indoor movement:

Conclusions

Future Work: change the orientation of the experiments to have the RPi broadcast BLE advertisements – potentially stronger signal, not limited by battery, etc.

Appendix

Code (in a separate file, all zipped together with word file)