

# Allen Nguyen

Port of Japanese Friendship Garden Android app  
Haiku Hunt into iOS

Update for July 23rd  
Week 4

Prime internship in Osaka, Japan

In collaboration with BPOC, PRIME, NICT, ISID, & Japanese Friendship Garden

# Project Overview

- Deployment of iBeacons on iOS platform
  - Two main objectives
    - 1.) Port Android Haiku Hunt application written by Jesus Rios of PRIME 2013 onto iOS
    - 2.) Map user location using iBeacons
      - Possible future uses:
        - Delivering data to users when they reach a certain location
        - Monitoring user location

# Progress for This Week

- Was referred by Nishio-sensei to two of his students who had done a similar location mapping project, albeit using wi-fi instead of BLE.
  - Was suggested by Nishio-sensei to use some of the methods employed in the wi-fi location mapping to increase the accuracy of BLE location mapping; his students should be able to give access to the programs they used (particle filtering, mixed Gaussian distributions, radiation maps)
  - No reply yet from the students
- Contacted Shimojo-sensei's students about utilizing their peer-to-peer network in order to push data to and from
  - No reply yet either

# Plans for Next Week

- Once given access to the programs of the wi-fi location mapping, apply them to the BLE project to gauge any significant increase in accuracy
- Get the pushing data implemented

# Cultural Appreciation



Kinkaku-ji – Gold Temple

# Acknowledgements

- Dr. Jason Haga & Vivian Haga
- Dr. Shinji Shimojo
- Tomoaki Takata
- PRIME - Dr. Gabriele Wienhausen (PI), Teri Simas, Jim Galvin, Madhvi Acharya
- PRIME alumna Haley Hunter-Zinck
- NICT
- ISID
- BPOC
- Japanese Friendship Garden
- National Science Foundation