

# Team Meeting #1 – 01/23/15

---

## Agenda

- Budget questions.
- General questions about project.

## Minutes

- Do we have access to the traffic controller?
  - No, but we may want to conceptually address this.
- Look at the IEEE Spectrum article over possible technologies.
- Assess one technology from the article.
  - Find something that can work in areas larger than Moscow crosswalks.
- Want to communicate back to the pedestrian.
- Give support for multiple users.
- Think about how weather might affect our chosen option.

# Team Meeting #2 – 01/30/15

---

## Agenda

- More clarification on budget.
- Considered technology options
  - Costs, type, limitations – come up with a preferred option.
- General questions.

## Minutes

- Budget has been approved around \$1,200.
- Consider using a Zyboboard interface.
- Consider looking into Matlab image processing.
- FreeScale Sensor Fusion, ‘fusing’ data from multiple sensors.
- Could look into using the Q-track over wifi.
- We need to schedule a formal client interview.
- From this interview figure out our initial specifications.

# Team Meeting #3 – 02/13/15

---

## Agenda

- Get verification of our client interview, project timeline and initial specifications.
- Talk about ordering the FreeScale Sensor Fusion development kit

## Minutes

- Client interview, project timeline and initial specifications are all verified as being reasonable.
- Got the go ahead to order, make sure not to pay sales tax.
- We need to be able to sense if there is low accuracy for any reason and take that into account.
  - May be able to figure out some sort of error correction.
  - May just sense the error and not provide assistance in such conditions

# Weekly Meeting #4 – 02/20/15

---

## Agenda

- Sensor Fusion has been ordered, we are still waiting for it to arrive.
- We are entering the device and equipment learning/research phase of our project timeline.

## Minutes

- Not much to talk about, just waiting for the Sensor Fusion to arrive

# Weekly Meeting #5 – 02/27/15

---

## Agenda

- The board is in, let's take a look.

## Minutes

- The board was examined, next steps were discussed.
  - We need to install software and start to learn how to use it in conjunction with the Sensor Fusion.
  - Start small. Blinking LED test or something of that nature

# Weekly Meeting #6 - 03/06/15

---

## Agenda

- Explain the Kinetis IDE to be able to code and program the device.
- Questions on specifics/deliverables for snapshot day
- Redefine the project summary for the Expo

## Minutes

- Expo summary was redefined and can be used as a project definition for our portfolio
- Specifics on the poster
  - Diagram of the board/sensors. Including a block schematic of the board.
  - A title page, team members, methods, specifications.
- There is no way to pinpoint a starting location of the pedestrian.
  - Start at the crosswalk button to get a point of reference and use the acceleration data to predict the pedestrian's path.
- Dr. Frenzel has a book of math libraries for coding in C.

# Weekly Meeting #7 - 03/13/15

---

## Agenda

- We learned how to program the board!
  - Used a pre-compiled program that sets LED color to red and blinks it once per second.
- Are working on how to use the Kinetis IDE to build a program.
  - Are currently having problems including the necessary libraries.
- Have spent most of the last week working on snapshot day.

## Minutes

- Got the numerical recipes book in C from Dr. Frenzel, will examine it for possible solutions for our use.
- Want to be able to normalize the xyz axis so we don't have to worry about the orientation of the device when examining the data.