Inspiring Young People to Litter Less through Waste Disposal Awareness 110489825

- **Problem background/motivation:** About 75% of people admitted that they have littered in the past five years [4]. Litter pollutes the environment and negatively affects community property values. Additionally, cleaning it up costs the U.S. over \$11 billion every year [3].
- Particular problem to solve: The average person will only take twelve steps to find a trash can before they decide to litter [4], so one challenge is lack of awareness of the closest waste disposal location. A person will likely take a few more steps if he knows there a trashcan is nearby.
- **Taste of past solutions:** Past solutions include an app which finds nearby recycling locations, but it has mostly negative reviews due to 'inaccuracy' [2]. Additionally, there are a few websites for finding composting facilities [1].
- Proposed solution and how it's different from past attempts: I propose to have
 an app with location markers of the closest trash cans, recycling bins, and compost
 bins; information about what sort of items go into which category; and points for
 using the bins. This is different from past solutions because integrates different
 disposal types, is educational about proper disposal, and rewards non-litterers. In
 regards to location accuracy, this app would also allow users to modify/add location
 markers.
- **Target users:** The majority of litterers are people under thirty [4]. Thus, the target users are young people who walk around outside often this app will specifically be for students on campuses. They will benefit by feeling environmentally friendly (especially through the app's positive feedback) and having a cleaner campus.
- Evaluation plan: We will design the mobile app with a Google map of the University of Maryland campus and have a test group add markers to any disposal locations on campus. Using this information, we will design the app, then have lofidelity user-testing, and end the semester with more testing after making any changes to user feedback.

References:

- 1. "Find a Composter." (2010). Biocycle. http://www.findacomposter.com/.
- 2. "Find Recycling." (2013). *Google play*. ">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling&hl=en>">https://play.google.com/store/apps/details?id=com.elbatrop.recycling
- 3. "Litter Prevention." (2013) *Keep America Beautiful*. http://www.kab.org/site/PageServer?pagename=focus_litter_prevention.
- 4. "Littering Statistics." (2013). *Statistic Brain*. http://www.statisticbrain.com/littering-statistics/.