

6.S078 Update

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February 12, 2013

1 Plan Progress

Following the comments we received after being accepted into the class, we rebroadened our search for potential products, focusing more on market viability and interaction with potential customers. We identified five major areas we wanted to investigate, and after meeting with specialists in those areas and evaluating potential market sizes, we've narrowed down the scope of our search. We have two products/product areas that we think are very promising, and are waiting to pass judgment on two other market areas (Biomedical robotics and urban/local agriculture) pending meetings on Wednesday. We are meeting with Professors Gifford and Zolot on Thursday to discuss our market analysis and get advice on a decision. We plan on selecting a product and starting design by Friday.

The products we have narrowed to are:

- Extensions of Leap Motion. Looking at two possible options:
 - Solution to make CAD work practically with the Leap
 - * Ergonomically impractical to work with Leap for extended periods of time (waving hands in the air) - some apparatus to hold the Leap device or your arms to make CADing with the Leap for many hours feasible
 - * Haptic feedback to make using the Leap with CAD models more useful than simply using a 3D mouse
 - Inexpensive and accurate 3D scanning using the Leap
 - * TODO Compare to market for MakerBot
 - * Can build off development efforts to do color scanning with Kinect
- Inexpensive LIDAR for low-cost robotics.
 - Low-cost robotic applications rapidly growing field; as measure of size, in May 2011 300,000 Arduinos out in the world
 - LIDAR extremely useful and common for serious robotic applications, but typical price of \$6k makes it inaccessible for consumer or hobbyist applications

2 Prototype Progress

As we haven't yet chosen the product we are going to produce, we do not have any prototype progress this week.