Victor Servito
EE 322 Engineering Design VI
Professor Hong Man
Homework 03

I started here by going down the list of student ideas and just noting which ones I found appealing:

Touch Screen Table	Road Traffic Center	Floorplan Generation
Vehicle HUD	Glove Mouse	Panoramic Photo
Smart Parking System	Bluetooth USB hub	Gesture Recognition
UPC Scanner/Kitchen King	Automatic Music	Device
Note Detection App	Transcription	Robot Surface Cleaner
Waterproof Speaker	Cubic Camouflage System	Energy Smart Home
System	Piezoelectric Tracking	Electromagnetic Gun
Infrared Media Remote	Device	

As an electrical engineer with strong interest in industrial design, my favorable contributions would be based on design and aesthetic appeal of the product.

1. Interest score 5
    a. Sharder Islam
    b. Touch Screen Table
    c. I would be interested in the design of the table, specifically the layout and control mapping of the visual interface. Very good with Solid Words and general Industrial Design concept.
    d. For restaurant/sales purposes, have the orders/items linked to an active database where managers can update at convenience. Include an under-side printer for documents such as receipts. Food item pictures are essential!
    e. I would be willing to work on this project over the semester.

2. Interest score 4
    a. David Cabrita
    b. Generic Vehicle HUD
    c. I would be interested in the design of the windshield, specifically the layout and control mapping of the visual interface.
    d. Include media input for music controls. Also stress the importance of user intuitive layout, where controls would alternate general screens such as vehicle data, GPS, phone features, and media features.
    e. I would be willing to work on this project over the semester.

3. Interest score 3
    a. Joany Anak Jores

b. Smart Parking System
c. I would be interested in the design of the parking sensor as well as the parking management database.
d. Although incredibly useful and relatively simple to apply, the challenge is getting facility management to buy into system. Find a way to map lots that are independent of the feature as a guide to find parking manually. The comparison would be that of a GPS to a physical map.
e. I would be willing to work on this project over the semester.

4. Interest score 2
   a. John Martelle/Dan Tomassi
   b. UPC Scanner/Kitchen King
   c. I would be interested in the design of the UPC reader and the item database.
   d. Use multiple peripherals on each kitchen cabinet/compartment that link them to a manual filing system to record where each item is stored to help users keep track of physical inventory.
   e. I would be willing to work on this project over the semester.

5. Interest score 1
   a. Isaac Cohen
   b. Music Pitch Detection App
   c. I am an avid musician and would assist greatly in the musical theory aspect of planning. Also provide design insight from a musician's viewpoint for favorable application interface.
   d. Allow users to match music to an online database to improve and fine tune music more accurately. Also allow social sharing aspect of music for users in a social circle.
   e. I would be willing to work on this project over the semester.