

Homework 0: Team Building and Project Idea

Team # 3 Proposed Project Name: The Incredible HUD

Team Members (#1 is Team Leader):

#1: Aditya Balasubramanian Areas of Expertise: Hardware, algorithm design, packaging

#2: Brandon Gardner Areas of Expertise: Software, interfacing, artistic

#3: Marcelo Leone Areas of Expertise: Packaging, software, design

#4: Nikhil Sureshkumar Areas of Expertise: Hardware, PCB design, software

Project Idea #1:

We propose to design and build a helmet based heads-up-display system. There is a need to display information to drivers/riders in a non-intrusive/distracting way – which we hope to achieve with this heads-up-display. We hope to display location, speed, bearing, elevation, and accelerometer/temperature, and incorporate a rear-view and night-vision camera. We also want to incorporate a GPS data logger which will store waypoint information. We estimate the project will cost in excess of \$1000, because of the projection technology involved. Brandon will spearhead the GUI and software design; Aditya will lead the hardware and interfacing design with Nikhil. Aditya and Nikhil will also work on embedded software. Marcelo will head the packaging efforts and aid with software design.

Project Idea #2:

N/A