Massachusetts Institute of Technology
Department of Electrical Engineering and Computer Science
6.111 - Introductory Digital Systems Laboratory

Final Project Check Off Sheet

Project Title: 2-D Mapping with Sonar

Student Names: Leon Fay, Miranda Ha, Vinith Misra (*a.k.a. Tunafish Team*)

TA Name: Jae Lee

TA Signature/Date:

Design

☐   State transition diagrams, Block Diagrams, Code

Hardware Communication

☐ Produce 40 kHz transmission pulse (view on scope for verification)

☐ Sample and digitize incoming data (RS232 for verification) (Leon)

Data Processing

☐ Working processor/post-processor algorithm (Matlab for verification) (Vinith)

☐ Functioning use of double buffering, multi access BRAMs

Display

☐ A consistent interpretation of data appears on display

☐ Ability to display data in multiple modes (front-view, top-view)

☐ Color-coding corresponds to distance in front-view mode (Miranda)

☐ Display resembles top view of environment in top-view mode