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

Final Project Check Off Sheet

Project Title: Have a Safe Flight: Bon Voyage **Student Names:** Mariela Buchin, Wonron Cho, Scott Fisher **TA Name:** Theodoros Konstantakopoulos **TA Signature/Date:**

Mariela:

Create a device that will measure the throttle of the airplane and output an 8 bit value to the physics module.

□ Interface two angular rate sensors with the FPGA labkit user I/O through the use of two ADC's

Convert the voltage inputs to angle values to input into the physics module.

Wonron:

Display an Attitude indicator to the monitor

Display 5 digit alpha numeric values to the monitor to represent Altitude, Ascent rate, and velocity

Display the direction of the airplane

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Display for termination of game

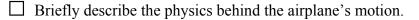
Scott:

Calculate pitch, roll, weight, thrust, drag, lift and direction from the two angle inputs and the throttle input.

Have text documents of values for WonRon to plug into her ROMs.

A Correctly working 'Major FSM' to interface all the other modules together

Discussion:



□ What are the limitations of this system?