M A S S A C H U S E T T S I N S T I T U T E O F T E C H N O L O G Y
DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

6.111 Introductory Digital Systems Laboratory

Final Project Abstract

Title of Project (nine words or less):

Global Domination

Abstract (one paragraph description, use reverse side if you need more room. Please include a description of how the work will be divided among the team members):

Physical description: Global Domination aims to create a floating globe complete with an atmospheric layer. Two LED-array arcs mounted on a rotating pole will spin at some rate (TBD) so that it appears to draw a 3-D floating globe (see image on flip side). Two additional LED-array (white colored) arcs with radius slightly larger than the globe will generate the effect of an atmosphere.

Divison of labor: One team member will be responsible for the arcs representing the earth's surface. The other will be responsible for the arcs generating the atmosphere. Production of each arc includes design and implementation of the FSM controller and image map. If additional time allows, possible extensions include making the atmospheric conditions dependent on geographic location (linking the two FSM's controlling each LED array). One team member will be resposible for fabrication of the product and the other will be responsible for working out the mathematics of mapping the image onto a rotating arc.

Project Team (individual projects require approval of lecturer):

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