**Memorandum**

To: Dr. Jainjain Song

From: Leela Pakanati and Manoj Kurapati

Subject: ECE 433 Pong Game Extra Features

Date: November 6, 2018

In this memo, we will discuss the extra features we implemented into our Pong Game for ECE433 final project.

For our two major changes, we added a second paddle to the game to make it multiplayer. We added another encoder to allow another person to play along. One paddle is on the bottom and the other paddle is on the top. Also, we also added a second “death” ball that is to be avoided by the players. Hitting the death ball will cause you to lose all of your points (just like missing the regular ball and letting it hit your back wall).

We also had two minor changes, on of which is a moving background. The checkerboard background slowly shifts downwards and to the right in out finished game of pong. Also, we modified the scoreboard so that it would follow underneath the each player’s paddle. Each paddle has its own scoreboard that follows it, staying directly under it the whole time.