

Title: Motor Control of an Oscillating Pendulum

Proposed By: Nick Myers and Chirag Patel

Advised By: Dr. James Irwin and Mr. Jose Sanchez

Abbreviation: MTRCTRL

Description: This project involves the control of a small A.C. motor that drives an oscillating pendulum. The pendulum will continually oscillate and its position will be monitored by several sensors. On command, the motor will provide a “kick” to change the level that the pendulum reaches at its peaks. The motor will be controlled by an 8051 Microcontroller.