

15-348: Embedded Systems**Fall 2022****Lab 7: Adding the I/O Port**

Due: Beginning of lab time on Thursday, September 29, 2022

Introduction

This hardware lab consists of building a circuit to hookup an interface adapter to the 6502 microprocessor.

Your final circuit will be evaluated based on both its functionality and the cleanness of the circuit layout and wiring.

Adding the Interface Adapter

In order to build this circuit, please watch the following video and follow it as closely as possible. Keep in mind that this circuit will push your wiring capabilities to its limit. Also keep in mind that the address pins on the AT28C256 EEPROM are distributed over its 28 bits and not connected in sequence.

<https://www.youtube.com/watch?v=y18vPW5hydQ> (Starting at around timestamp 20:00)

What to Demo

During your demonstration, we expect you to show us your computer running the same program that the video ends with (with the alternating blink lights).