

## CS/EE 120A Lab Report

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Section: 026

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Lab number and title: Lab 6 Timer Design

Note: every individual must submit a unique lab report form.

Summarize (in your own words) the subject of this lab:

The purpose of this lab is to design a timer that turns off a light after a certain amount of time

Describe the new concepts covered in this lab:

Some of the new concepts we went over in this lab was the idea for timers. We needed to understand what goes on every single clock cycle and needed to understand how to calculate that into our system design.

Describe how this lab built upon previous ones:

We needed to understand how finite state machines work and binary calculations in order to know when our light should turn off.

Describe the most difficult part of this lab for you:

The hardest part of the lab was designing the scheme since we needed to understand what type of components we needed since we need to understand how the timer worked. We also needed to understand how to do the math needed for the counter.

Describe problems you faced and how you solved them:

We looked at our textbook to understand what type of components we needed. From there we looked into how do we integrate those components into our system.

Do you verify that the code included with this report is your's and your partner's original work (yes/no)?

Yes

Submit your source code, testbench, and simulation output.