

## Submission Sheet- Lab 0

Name: EL. Scmitt

Section: 107

Scan this file and submit on Canvas by the specified due date along with all required simulation/image results and your code. Images are to be submitted in their pdf file. Any sign off without the corresponding image, code or waveform is not eligible for the points to be awarded.

1. What is the name of your TA? (5 Points)

Ali Noor

2. Are there a lab assistant in your lab section at this time? If so what is their name(s)? (5 Points)

NO Lab Assistant

3. Starting once work is due points are lost and then again every 24 hours additional points are lost. If work is due at 4pm on a Monday and but the assignment is submitted on Friday at 10 am how many points will be lost for being late? (5 Points)

~~15 Points~~

~~15 Points~~

15 Points

all lost each day

36 60 Points are lost

4. As this lab is heavily based in programming, you are to write the following honesty statement:

"I have read the Michigan Technological University Academic and Community Conduct Policy, EE2174 Lab Policies and Syllabus. I agree to follow all rules and guidelines provided. I understand that if I violate any of the policies or rules I may receive loss of points or be referred to the Academic and Community Conduct Board to be reviewed for other sanctions, which may in some cases result in suspension or expulsion"

AND print and sign your name along with the date at the end in the provided space. (20 Points)

I HAVE READ THE MICHIGAN TECHNOLOGICAL  
UNIVERSITY ACADEMIC AND COMMUNITY CONDUCT POLICY, EE2174  
LAB POLICIES AND SYLLABUS. I AGREE TO FOLLOW  
ALL RULES AND GUIDELINES PROVIDED.  
I UNDERSTAND THAT IF I VIOLATE ANY  
OF THE POLICIES OR RULES I MAY RECEIVE LOSS OF POINTS  
OR BE REFERRED TO THE ACADEMIC AND COMMUNITY  
CONDUCT BOARD TO BE REVIEWED FOR OTHER  
SANCTIONS WHICH MAY IN SOME CASES RESULT IN  
SUSPENSION OR EXPULSION.

Print Name ELI SCHMITT Date: 1/12/2018

Sign Name



5. TA sign off for 10 pulses in part 2 with both analog and digital signal shown and the necessary measurements. (15 Points)

Initials: A.M Date: 9.12.19

6. Image of 10 pulses for part 2 containing both analog and digital signals. (10 Points)

7. TA sign off for analog versus digital bounce on part 2. (10 Points)

Initials: A.M Date: 9.12.19

8. Image of analog versus digital bounce for part 2. (10 Points)

9. Demonstration of the ability to turn on and off the LED for part 3. (15 Points)

Initials: A.M Date: 9.12.19

10. Demonstration of transition on oscilloscope for part 3 using channel 1. (10 Points)

Initials: A.M Date: 9.12.19

11. Time for transition to stabilize (you must include correct units): (10 Points)

424.0 ns

12. Image of a transition observed on the oscilloscope for part 3 from the oscilloscope. (10 Points)

13. Demonstration of completed image PDF file. (15 Points)

Initials: A.M Date: 9.12.19

MSO-X 3012A, MY50514804: Thu Feb 08 16:56:24 2018

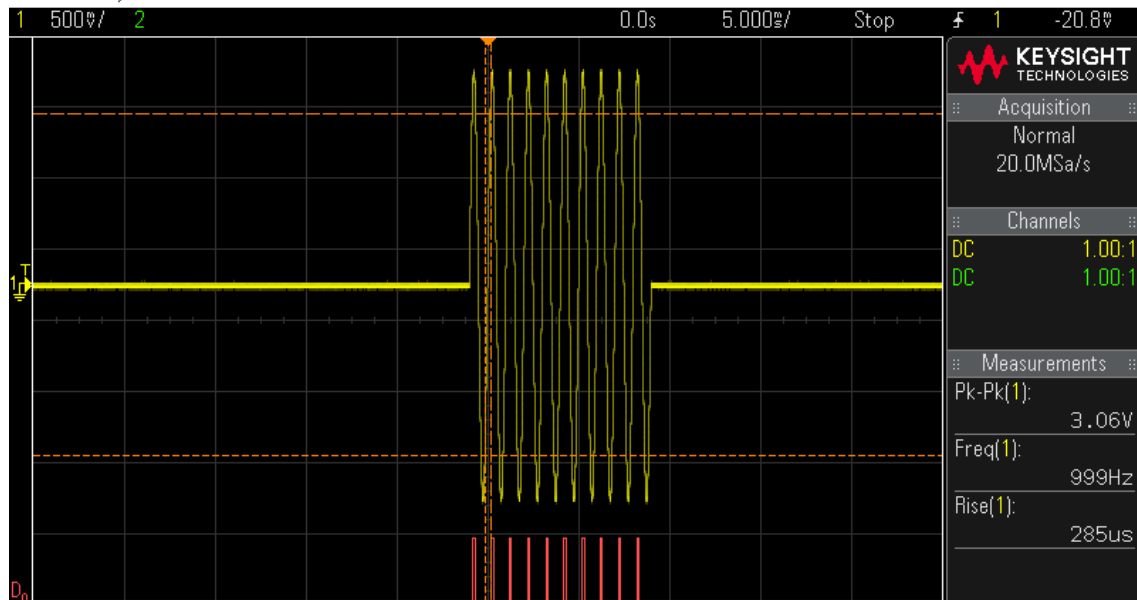


Figure 1: A picture of a capture of a 10 MHz sine wave with channel one being the wave and D0 is the digital input with the same 10 MHz wave.

MSO-X 3012A, MY50514804: Thu Feb 08 17:17:22 2018

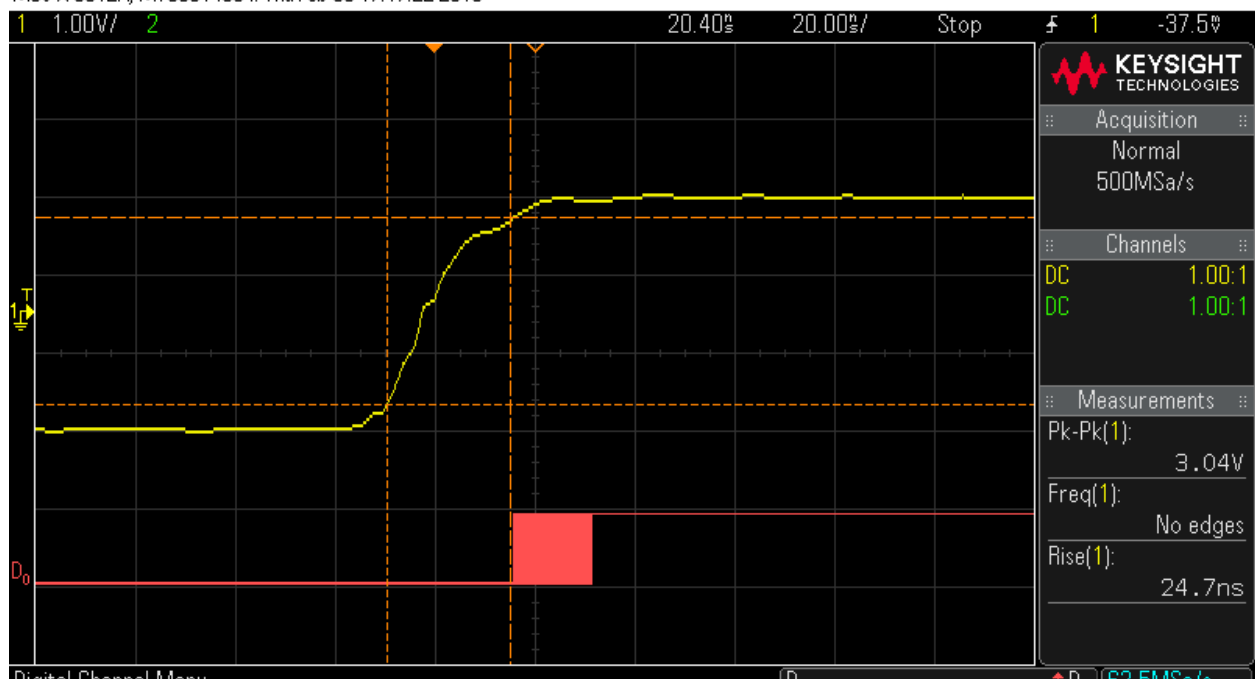


Figure 2: A Picture of a bounce from pulse generated buy a waveform generator. D0 is the digital input and Channel 1 is the pulse.

MSO-X 3012A, MY50514804: Thu Feb 08 17:30:38 2018

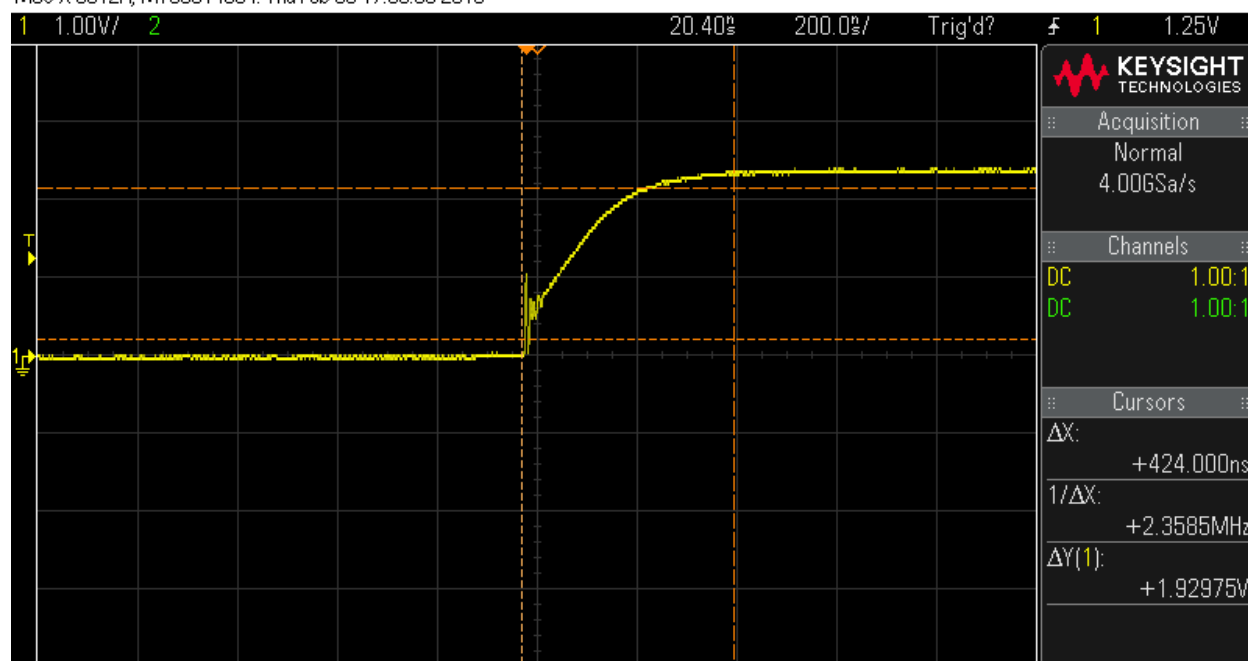


Figure 3: A picture of how a switch behaves while toggling it from high to low. The time from low to high is 424 ns.