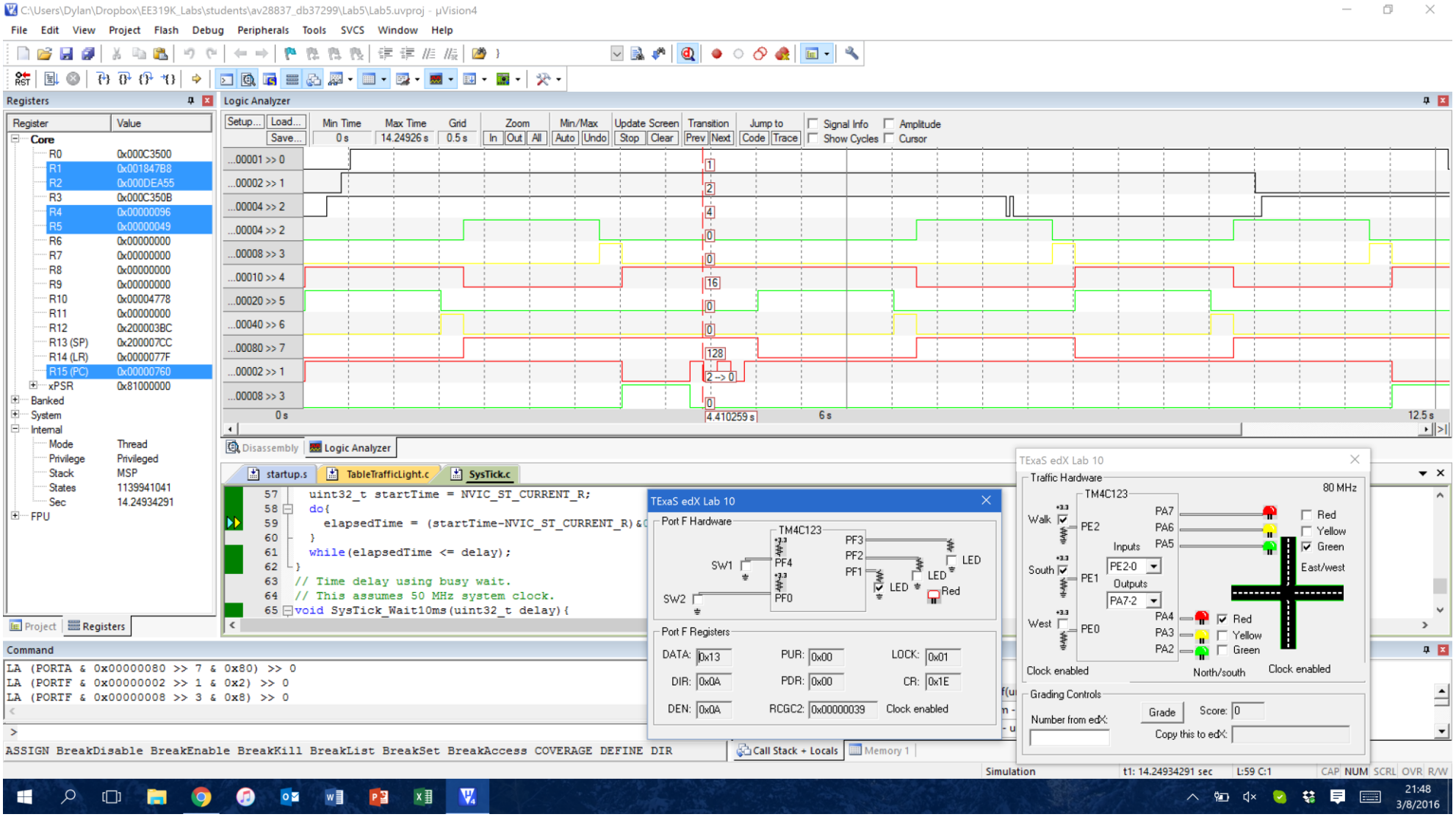
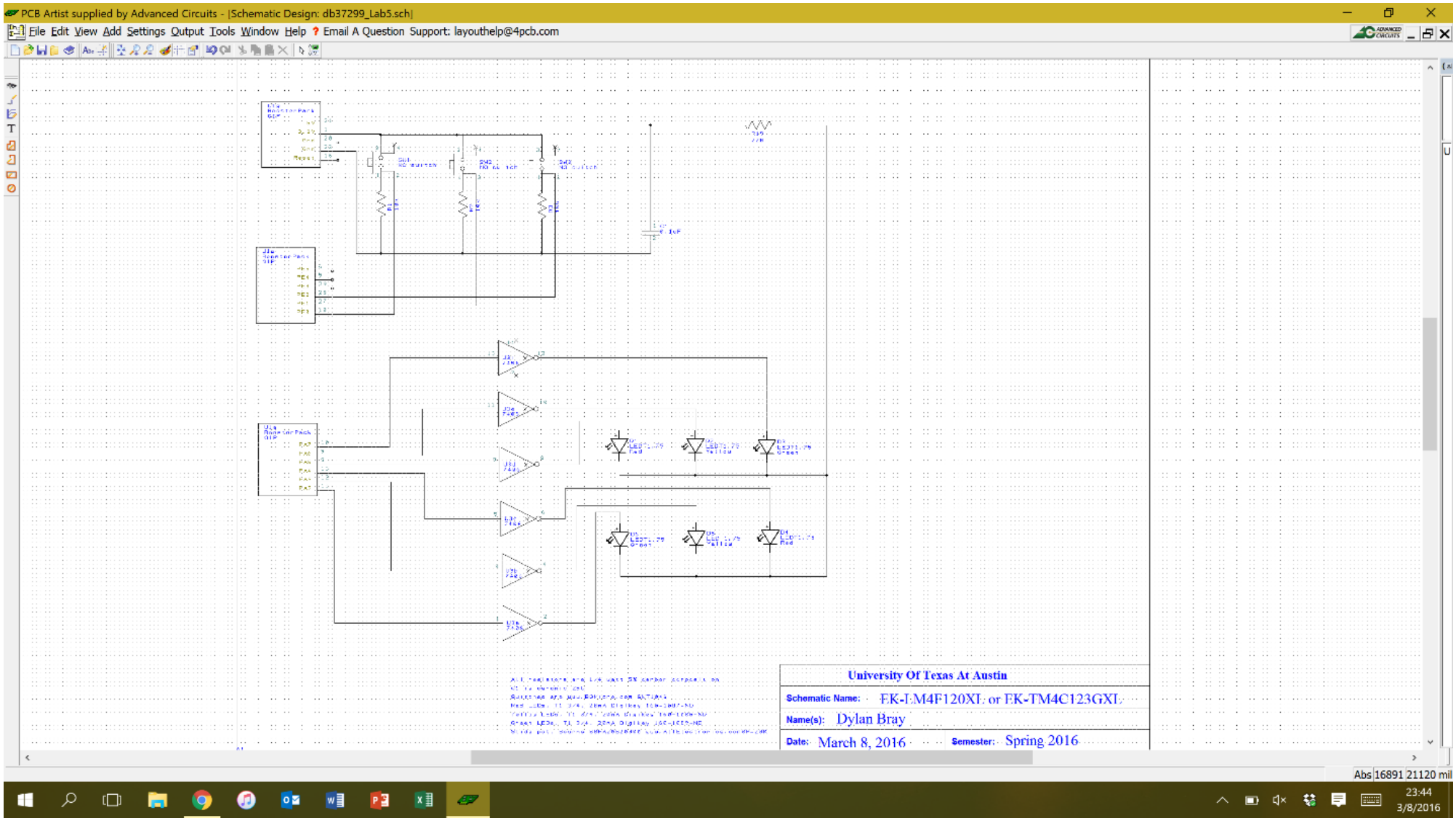
Dylan Bray and Ashkan Vafaee Lab 5
Deliverables

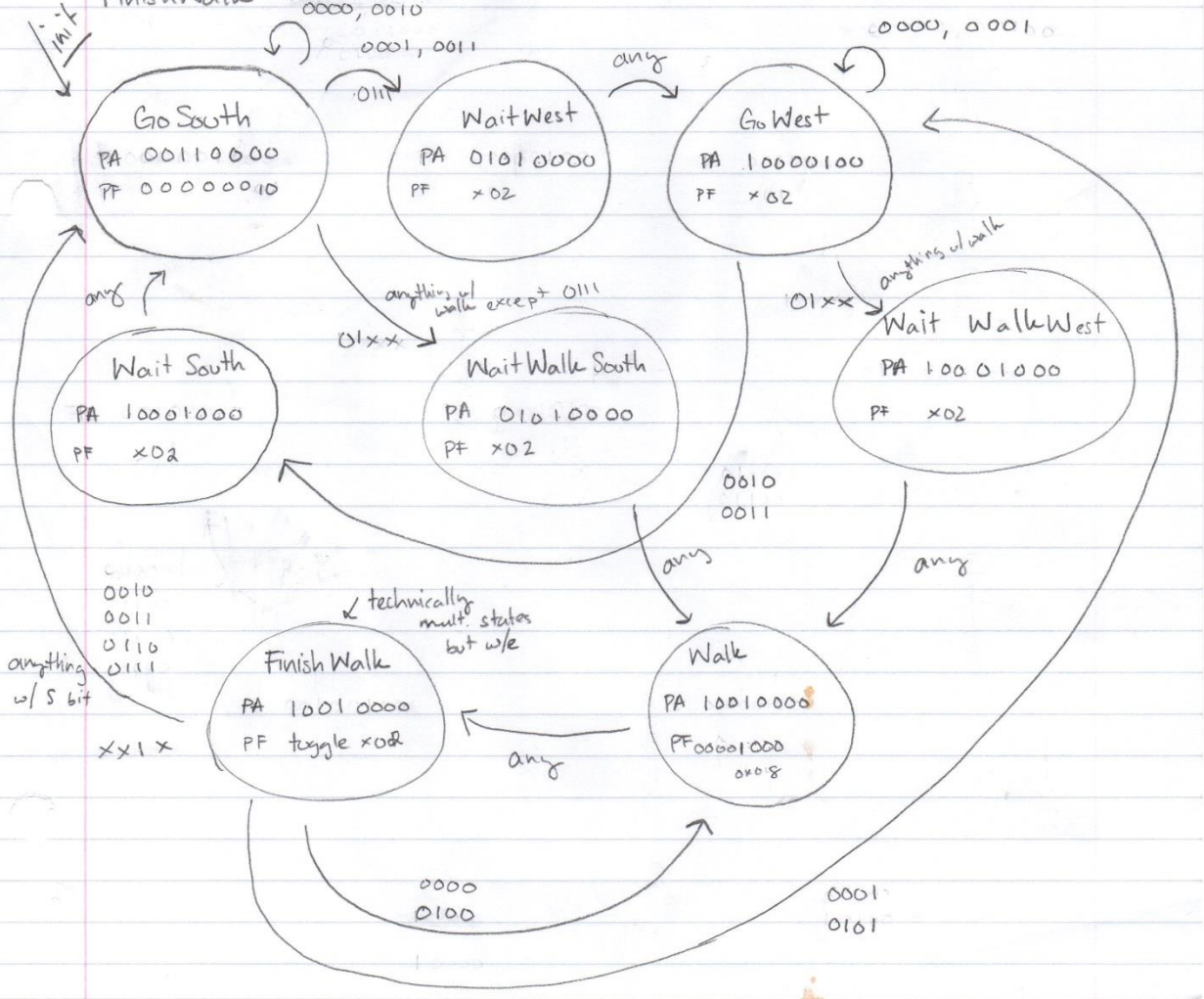



PCB Artist supplied by Advanced Circuits - [Schematic Design: db37299_Lab5.sch]
File Edit View Add Settings Output Tools Window Help Email A Question Support: layouthelp@4pcb.com
University Of Texas At Austin
Schematic Name: EK-LM4F120XL or EK-TM4C123GXL
Name(s): Dylan Bray
Date: March 8, 2016
Semester: Spring 2016
Abs 16891 21120 mil
23:44
3/8/2016

	South			West			Walk		Sensor		
	G	Y	R	G	Y	R	G	R	South	West	Walk
PA	5	6	7	2	3	4	PF 3	1	PE 1	0	2
	right			left					0010	0001	0100

Go South : 001 1
Wait South : 000 0
Go West : 011 3
Wait West : 010 2
Wait Walk South : 100 4
Wait Walk West : 101 5
Walk : 110 6
Finish Walk : 111 7

no input : stay same
Priority : different state above current
walks above S/W
South above West



	current state	next state	output	wait
①	Go South	0000, 0010 Go South 0001, 0011 Wait West 01xx Wait Walk South	PA 00110000 PF 0000 0010	1.5 s
②	Wait West	Go West	PA 01010000 PF x02	.25s
③	Go West	0000, 0001 Go West 0010, 0011 Wait South 01xx Wait Walk West	PA 10000100 PF x02	1.5s
④	Wait South	Go South	PA 10001000 PF x02	.25s
⑤	Wait Walk South	Walk	PA 01010000 PF x02	.25s
⑥	Wait Walk West	Walk	PA 10001000 PF x02	.25s
⑦	Walk	Finish Walk	PA 10010000 PF x08	.75s
	Finish Walk	xx1x Go South 0000, 0100 Walk 0101, 0001 Go West	PA 10010000 PF toggle x02	.75s