## Laboratory Worksheet #08 Crossbar Configuration Exercise

This worksheet will help you configure the crossbar for Lab 3, part 1. Refer to the notes from the professor's lecture on the crossbar. Review the example the professor went over in class on the crossbar. Also refer to the Priority Crossbar Decode Table in the handout.

## Exercise 1: Reserved pins and Crossbar initialization

This problem	n is an exa	mple only, d	o not confu	se it with th	ne Crossbar	configuration	n for Labora	atory 3 (and la	ıter
laboratories)									
1) Assume th	ne following	are enabled:	UARTO, I20	C (SMBus0)	, and the firs	t four captur	e/compare n	nodules associa	$\operatorname{ted}$
with the PC	A. Which p	ort pins will	be assigned	to the follo	wing:				
	TX0 _			<del>;</del>					
	RX0 _			;					
	SDA _			;					
	SCL _			;					
	CEX0 _			;					
	CEX1 _			;					
	CEX2 _			;					
	CEX3 _			<del>;</del>					
2) Determine	e the bit ass	signments for	r XBR0. In	dicate assign	ed bits with	a 0 or a 1,	no bits will l	be unassigned	(no
X's).									
XBR0 data s	sheet								
bit	7	6	5	4	3	2	1	0	
3) Determine	e the comm	and to initia	lize XBR0 l	pased on the	above bit a	ssignments.			
	VDDO								
	ABKU -			;					

Exercise 2: Laboratory preparation
1) What is the XBR0 setting indicated in Laboratory 3?
2) For each Laboratory 3.1 version, which Capture Compare Module is assiged.
Speed Controller;
Steering Servo;

LED

When complete, include Worksheet 8 with your Laboratory 3.1 Pre-lab submission.