ECE 385 Lab 9 Report Outline

				o Roport Gatimio			
	Introd						
	☐ Briefly summarize the operation of the AES encryptor/decryptor.						
	Written Description and Diagrams of the AES encryptor/decryptor						
			n description of the softw	· · · · · · · · · · · · · · · · · · ·			
				e NIOS processor as well as the basic	functionality		
			of your C code				
			n description of the hard	· · · · · · · · · · · · · · · · · · ·			
			·	os of decryption and how this is control	lled and		
		100	computed in hardware				
				ware/software interface (avalon_aes_i	-		
			•	em sends data between NIOS and the	nardware		
		Plack	· ·	register file is designed			
		 □ Block diagram □ Please include the RTL view of avalon_aes_interface.sv. The Qsys view 					
		_		or lab9_top.sv is not necessary for this	-		
		State I	Diagram of AES decrypt	– .	o portion.		
	_		This is the state machine that was written in AES.sv. You may abbrevia				
				the state diagram like in figure 9 on pa	•		
			of the lab manual.	3 1	J		
		Modul	e Descriptions				
			A guide on how to do t	his was shown in the Lab 5 report outli	ne. Do not		
			forget to describe the 0	Qsys generated file for your Nios system	m!		
	Annotated Simulation of the AES decryptor						
				and set AES.sv as top level for simula			
			s simulation, you should display the input encrypted message, the input				
				I message and the current state of the			
			' - '	s of interest in the simulation (such as	wnen the		
_	decryptor finishes decrypting, etc.). Post-Lab Questions						
_	Fill out the design resources and statistics table (duplicated here for						
	_		nience).	ina stationed table (dapheated fiere fer			
			LUT				
			LUI				
			DSP				
			Memory (BRAM)				
			Flip-Flop				
			Frequency				
			Static Power				
			Dynamic Power				

	Total Power						
 Which would you expect to be faster to complete encryption/decryption, the software or hardware? Is this what your results show? (List your encryption an decryption benchmark here) If you wanted to speed up the hardware, what would you do? (Note: restriction of this lab do not apply to answer this question) 							
□ Conclusion							
	 Discuss functionality of your design. If parts of your design didn't work, of what could be done to fix it 						
manu	al or given materials whi	s, incorrect, or unnecessarily difficult in ch can be improved for next semester so it doesn't get changed.					