Ahmel iff. Shingy LLPlushe) in c "EgfWd: Static Design Automotive Door Control System Design " Block diagram" McK (870/3) ECU? Yes CAR No Morne door open door Buzzer off LIBhts ON Buzzer on Lights off two many states bad approach " Flow charf" 1 No need to Camplicate things

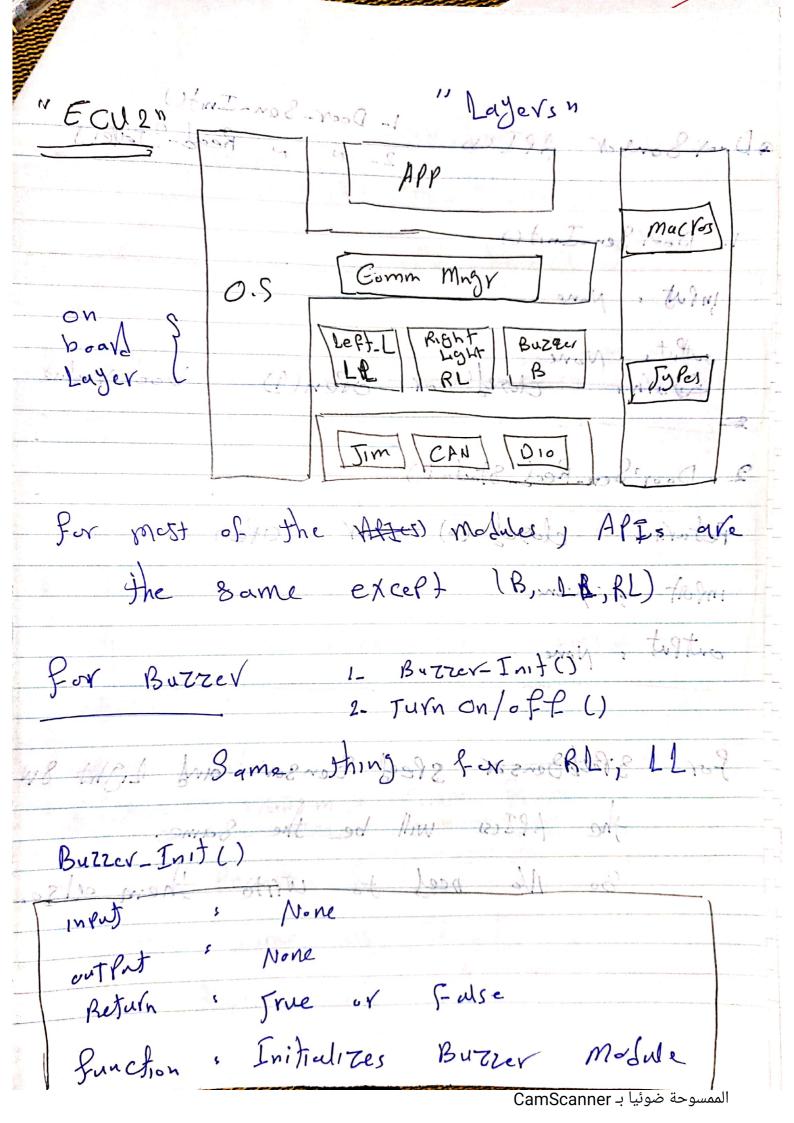
ME for Ecu? Stadic Design 1 3/2/a/ 2 -0/0 A9P Comm Mngy "On 1 # 0.5 boad Layer n CAN ADC Jim DIG ocho? 10 sivi layers Each Mobile API : 7. DIO 1- Void Dio-init (Pat, Pir, level): 2 void Dio-write (Pot, n, n): momming _ wints Dio_Real (Part, is). Post enum or macro & Amor - Dio-Chamel & ChA -> Chx enum or regues to enter return dood macros

type in colo; enum macro Dio-Pinlevel 30,13 Values 2 ADC APICO 1- ADC-INITC) 2- ADC Read LADC-init() inputs: ADC_ConfigTyPe * ADC_Conf_Ptr Return ; True or Palse function: Initializers ADC mobile 2- ADC-Real () Porte Number, channel Number · tupo None unt16 or unt32 not unt8 Return: Reals ander value of Bensor. fun ctions

Jimer APICSO: (1- Jim Inity)	: 10274	Ny 7
() time 2 - Time - 85.	MC)	guita a de la
() 1000 83 1 Jimer 2 8	}o(∪)	
1- Jimer Initc)	() tys]	MAD
input: Pointer to Configur	(atron) Stra.	\$
outfut, None	- Marita	8/10
Return, Nete True false	54Y A	W St
Janctions initializes Jimer	nofule	h. s
2-Jimer-Staffer & Jimer Stop		
Impit , None	Mone	260
Return : Start / Stop timer	HOM : TION	
	Man 9 - MAD	
(x) 2518 Ation whole	and the second s	

CAN APICOS (2/10ANTIMO) SONIE VANOI (Jan 12-15GAN- Transmit () Water Small Receive () 1-CAN_InitO infuter ? Pointer to configuration Struct Return True/False Sundiens mitjulited Janes Medy 2- CAN-SeanSmit () inPut: Data with Size x "uint 32" outlut: None Retorn: 1/0 function: Jonsmits CAN grame 3. CAN-RECIEVE() the Same as CAN_Tx but Returns data with Size (X)

BDook Sonsor APICS	1- Deur-Son-Int() 2- N P Read-State()
1 Dor Sen-Inita	
Infut: None	
	Por Open(1) bod value
3 - Door Sen-Reck-State	
Resula dosel (0)) (interest of order topy of
infat (Juline 8)	the some excert
output: None	5 x 8 -1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 CN/etal	speed Bensor and Light 8W
the APIcsi	will be the Same.
So No ne	ced to write them of so.
Burzeer Module	



2- Turn on-Buz () 3- Jurn off Buzel Infit : None ex NACK(0) output, None Refurn: Umts "Buzzer State" or (void)
Fanc: Jurn on Joss Buzzer Jou Can ImPlement 2 fur ction taking of an integer value (uint 8) { Anything else } 1 Por L-Light and R-Light functions are the same as Buzzer APIUS