CMPEAUS Sept.7

Sept7. Print the payload message. Note: 1º Homework (RF module Nate: Rython Implementation on & RF Wark-in-Progress) Jetson NAND, OR R-Pie 3 B+ or4 Due today Inspection in Class. you can dothe same. Honework (17) Due A Week Note: This homework is for Laptop Bused from Today, Wite ClC++, Implementation. OR Rython to Implement Based on the Homework (Today. R.F. Bourd)
we will continue with Landline" LISA Algorithm (Phase I) ≤uch that: Testing Capability. 1° Console Input from user to Select No. of Bytes to-Synchronization. For Example: 16 Bytes or OXSO 32 Bytes. LISA Syrc. Fig.l. 2. Note in the Juture (phase II) We would like to Extend this Implementation PF Board No to Allow a Single Byte (as"Green" in Fig.1. Matching to the LESA Embedded Board Sync Field to Establish Synchronitation. Board 3 Payload: First Name + Last Namet 4 AigitS ID+CMPEZY5+SJSU

Sept.7 Z0/8F-105~ Example: Ref from the Class Example: Homework ON LISA from the github, ID: 2018F-104~ Class github. 32 Bytes Sync. Observation 1: The Minimum Number of Bytes to establish Synchronization data (KB:+s is 1. Therefore 1/32 Bytes for Random Bits. Payload the Sync. - Confidence level Index y

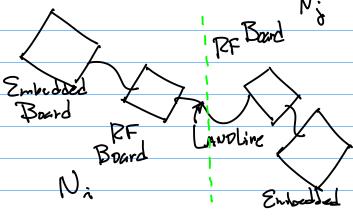
No. of Byles to Establish Sync.

TIO 11. 11. 17 A. C. Z. Sync Field is Corrupted. Total Number of Bytes (32) 32 Bytes Sync. Zsb Bits (=32 Byte in Sync Tield) Note: In Safrague Defined Radio, We can Change y (Confidence Level) to trade the quality for Speed if 10% Random Bits, Corruption. 256×10% = 26 Bits Random to it is allowed. alter Sync' Field. In Cognitive Radio Design, We Generate Random Bits. (26 bits) would like to have this Ability. USE XOR" BITWISE at Amy Arbitrary Location within the Sync Field. Observation Z: LINEAR Characteristics is from the fact LISA Index is 3. User Input for the No. of Bytes (as defined from D to F with Linear Confidence Level), then the Code increment. And Invariant Will pake the input file with the Characteristic is due to the first Confidence Level to Establish the ID Index, e.g. Konging from Synchronization. o to F will allow the Algorithm Sept.12 (Mondry) to pin point to the Begining Today Stopics: 1° LISA Homework Implementation. Zo Base Band Signal

of the psylvad.

	Sept. 17
Ţ	Example: (ISA Implementation.
	Sync paylond & Korak
	Butter
	(1)
	Sync payload Fig.1 As
	Arbitrary Bits a given condition.
<	Step Z. Create a'mask" Template to Reflect
	the watching size that you like
	/////// (Z)
	2744. 405
	OXAD ··· PAF
•	Step3. Add Random Noise to Fig. then move (z) at
	the beginning bit (1st Bit) of (1). Such as
1	
Į	
٥X	Ad Payland Fig.Z
	Check the matching result Between (1) (Black) and (z) (Green) if matched, then use the matching index to jump to the
	1st Bit of the tayload; O/W, Continue Byshifting the
	mask 1 bit to a newer location.

Septitzizz. The outter loop will continue till the matching is found or the entire Buffer is exhausted: Note: Reference to Convolution (10) Note: 8 pos 5, h(k) g(n-k) RJ-45 Plug Pin 1 R Kernel (e.g. mask) Its implementation is similar. Example: Land Line Testing. Select POS . for Tx (Pp.Z) RF Board POS 5. GNO.



Select Pos 3. for Px (70,3) Bild Pheslide PPT. With this Photo, And Connectivity table

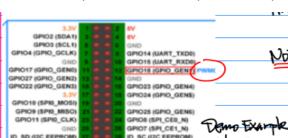
Choose 13-45 Connector, and CATS or CATO Cubly for Landline.

GP50 is the protocal for the implementation (Not Ethernet),

Handware Design (Software Design For GELTERY PPZ District FOR NUDA NANO

		71	MZ!MX.	Pin(a	J)
			the.	12.C	onne chiv
P1.30	AUU.4		_ P 1.3V	, -	(J2-19
P1.31	AD0.5		P131	-	—(J2-20
P0.2			P02)-((J2-21
P0.3			P03		(J2-22
P0.21			_P021	\rightarrow	J 2-23
P0.22			P0.22-	RED_LE	D C J2-24

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	Sept.14
	Homework Implementation.
	Software Side JNXP LTC1769, or LRC11XX
	CRCIIXX
	MOA JEKSON HAND
1	Preveguit:
	Preveguit: Hardware Side: Embedded System
	Prototyping.
	NUR I DC 1 1769 I TWHOLINE BOARD. 2017F-102-leckayout 2017-2-7.pdf
	Prototyping. NXP LPC 11769 I Trototyre Board. 2017F-102-lectayout 2017-2-7.pdf LICZY CTIONE Board-B from ebay.
	NVDA NAND 2021F-114-gpio-nano-v2-hl-2021-10-20.pdf
_	Step 1. GPIO Sample Code (1) Sample code from the github
	\ \NXP \LTC \7 6 9
	DA VE Penelmore Libert NXP. Com
	(NUDA NANO (3) NXP veneloper. WWW.nxp.com Signup as a developer.
	(4) Down Load Lectory (4) Down Load Lectory (5) Nxp Developer. Www.nxp.com Sign up as a developer. Down Load, Install MCVXpresso.
	Patch. (a) Config the IDE (MCUXPresso)
	Buldit.
	CK++ project Seni hist CMPE240-Adv-Microprocessors / 1769 patch.zip
	4
	(5) (APIO Sample vode.
	CMPE240-Adv-Microprocessors / 2018S-11-GPIO-2015-1-30.zip
	To Run the test Lode, Be sure to have hard wave Ready.
	CMPE240-Adv-Microprocessors / 2018F / 2022F-101-notes-cmpe240-2022-09-12.pdf
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