Everyphils 3D Shudow.
Protessing 1 (0%)
Engine Engine | 6 Pill --ED Gruphils =3078,30%. Angust 25 (wed) 10% Teflection midterm: 30%, Final 40% (Comprehensive) Today's Topics: 1°Bill of material Option 1. (5%+) NUDA NAND Reference: zithub/hudili /Cmpez40/2018F Ja. Likely Devices Ordrers, O.S. C/C++, Pythow. b. I/D Juterface. Edge AI "The B.

GPID, SPI. The B. D.M. 1. CPM module NXP LPCITG Optim 7. (5%+) RISC-V Target 3rd Party (Digital Aut), module To Distributors Sol, FPGA Board, Proposit (me parmyruph), Submission Digitary. Lom, Monser. Com etc. Expecting Delans. Lead Time Over & Weeks By Sept 157 (Wed) vin 5-mml Alternative 1 Te-we the proviously Policy ON Project Submission 1º. Form 3-4 Person Team. Team (4 Person) Zo No Sourie Code Design material Each person will need to have Course Copied: All Course material has to be completed judicidnally; his her Board; Option 1: NAND. a 4400+ "firmware" Datasheet 3° Lateroject, 10% perweek; b Jetpack 4,3 or Higher tool for o (O.S.+Libs.+Puckages) Flashing the CPU modele

SLEDS. (Red breen) for PWIZ. ⊆ Coding in Both user & Kernel Spares. → O.S. Distr. Tool Chain, Device Oniver Debugging (GPID), ILEO=4~10mA donnertors.

di Ji for Powr Input Rpin & Davelopment; Option Z. PCISC-V. verilog, FPGA. Jo mont CPU module. 2. Fower Regulator IC Suchis 7812,7005/... 1117 78xx

78xx

Vin Vont

Fig. 1.

5.0 VOC "12", 12VVC & Switch. 5/W1: to togale FWR

S/WZ

F Wive for

Wive Wrapping Soldering

28-30 AWG Vin 7 Voit + 1.5 Voc "(1)

DC Voltage Source Admitor

Admitor

Admitor

Fig. 2

1000 mW.

To Vin

of 7805

OR 4. Color LCD Display module SPI (Seial Peripheral

Interfene)

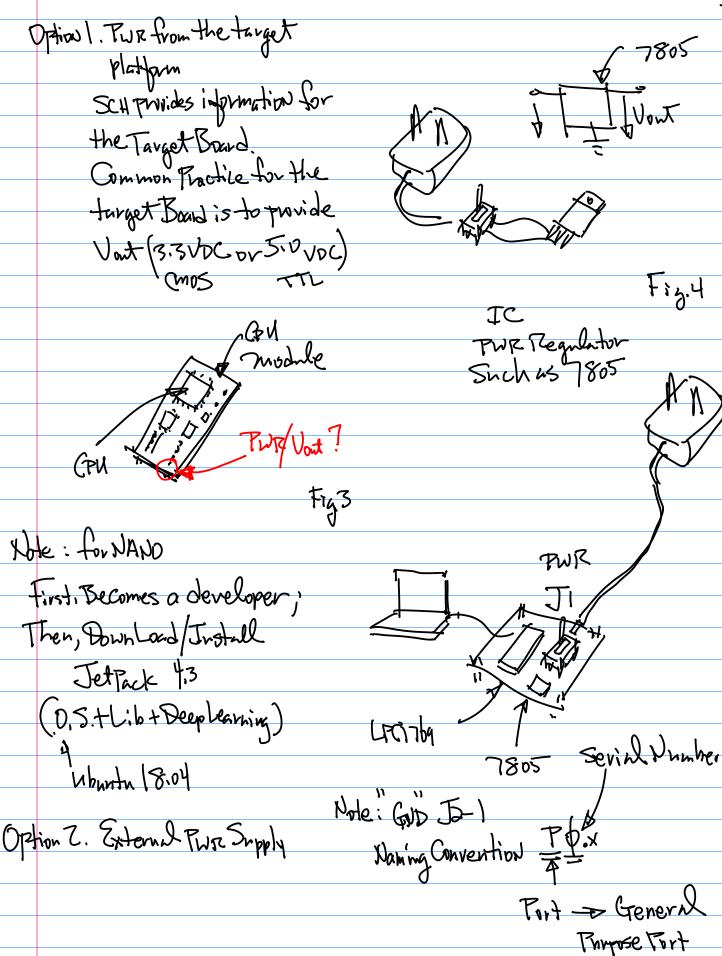
E Software Gruphis (Daiver)

Actual Interfene LCD. or a loopment 2mmn Chirent Feeding.
Why Do Rating
We use it? MC W Xpresso (ID.E.) Sit, Cib.
5. "Other" thing. Deplay the System. 12J-45 Connector 3. "Glue" Components Cops 47MF 12 Tright Angle

CMRE240

b. Flashthe program to Angust 30 (Mon) make a Simple firmware Today'S Topics Coad to the target Board, to 1° Introduction execute the program; Example: To Rind Rotalype Board C. Orl output SI Themon Let A Wire Wrapping Board a Dimension 4'X3" GU Japat J Read"1" When SIW-OVE b. Refalo Through-Holes, With metal coating SHAN Kado", when LRC1769 SIM -> GND 30 Dosignin Harowave a. Pover distribution to the System 4 Mounting Holes tig1. d. 4 Stand-offs (Legs) Subsystem(s) PWIR For Both LAC 1769 And NAND Z" Kind Helpo, the world" a. JOE MCh Xpresso WWW, MXP, COM Homework: Download Install 九二 MCN XPNESSO Aug30. USB Cable: Lastop to CPU module C/C++ Code print "Hello ... "for

Target Platform.



oyvam

Protolyre Board Binld Up b, Stand-offs. Sept.8(W) Topics: 1° Hello, the world Troyvam Shadware Implementation External Power CKT (Redicted Should be FPP Testing CKT included) LNXPMCU Xpresso. GPP Testing CKT & Installation of MCU Implementation Design

Jathe CKT. Xpvesso. & github Knalili/Cmore 240/20189 Crc 1769 Partch, Jusport this partch Architectus Aspects. to your Xpresso. CPU Architecture, M. Map. https://github.com/hualili/CMPE240-Adv-Micropr ob/master/1769%20patch.zip Note: Wire Wrapping Board with PORIC(7805), with "Stand-off's (Logs) Red LED Homework: Next Show-and-tell CPU Auh!terline: Wire Wrapping Bourd ; NAMPIE monting Holes. 1. 32-bit Architectuc CPU Avabitedire a. ALN 32bit Wrapping Arithmetic/Logic Bread Brand Fig. 1 b. Register File, Wive Wrapping Board

Carrier "Board A BANIC Of Registers. 32 bits General Thros Registers " TAP Plastic" Those Registers that can participate Any meaningful to the Bond: @ Stand-offs. b Connector(5) for External TWP

To Define Determe the Behavior of teriphenal Naming Convension: Controllers.
6 letters Anthmetic Logic Merations Special Purpose Registers. Sprs 32 bit Common Design for SPRS: Note: Little Endian" LSB is ap, 1 Control Register(5) per Each teriphenal Controller Z. Byte Addressable machine CON Rvot (3 Letters) 2° Data Register, DAT is a machine whose Smallest memory cell 30 Pall-nploown (Electric Charateristics) is a single Byte. With an unique address C. Data Bis B. Directional" 30 bits Total memory: Information Flowing Both Directions. 3=2,516.516.510 ...(1) Address, "Uni_directions" trom CPU to the Outside. 32 bits 210=1K, 220=210,210=1 -11(2) ...(3) M Z30=1M.|K=1gign Notation: 32 bit Register . . . (4) GPRX[3:0] Z=2.230=4.6B 3. Memory map. GPRX[31] Fig. Z GPKLOJ For Address Brs, Addr [3]: 1)= az az --- az az

Define Starting Addr. of Each Bank: Bank: az azo azo! Az8 BANKO 0 0 1 BANK BANKI 0 1 0 ; BANKZ BANKO 0x000-0000 Hex Fig3. BANK 7 32 bits for the Address Write the Address for Each Bank
"Starting" (32 bit) 8 losts fouthis memory a. PWR-up Address: CPU will fetch the 15t TOUBANKO: OXOUDOLOOD Executable from this memory BANK1: 0x2000-0000 → 0×0m0-0000 Exmyle: CPU Datasheet pp. 13. fy ARM GPID OX2vv9-COOD Note: for x86, the pwin up Address: OXFFFF_FFFD a. Collection of SPRs are mapped to here, e.g. $\frac{1}{2}$ BANKS. $\frac{3^2}{8} = \frac{3^2}{2^3}$ Addr. for Sprs are mapped to here = 2²⁹ = 2⁹ . 2²⁰ = 512MB & Which memory Bank tolds this GPID? BANKI How many Bits Do we need to whose starting Address is uniquely define tach Bunk ? 3 lats > 031030029