MPEZ44 Fall 2023

August 21 (Monday)

Organizational Meeting.

1. The Greenshot" is posted on Note: Bring your Laptop Computer to the class.

https://github.com/hualili/CMPE244

Course and Contact Information

Instructor: Harry Li, Ph.D. Professor, Computer Engineering De-

State University

Office Location: Engineering Building 267A

(408) 924-4060 (650) doo-1126 Telephone:

Email: hua.li@sjsu.edu

Class Days/Time: Mondays and Wednesdays, 4:30 pm – 5:45 pm, Aug

Office Hours: Mondays and Wednesdays, 3:00 pm – 4:00 pm

Classroom: Engineering Building Room 295

Prerequisites: CMPE 180A and CMPE 180D, classified standing, c

Artificial Intelligence or Computer Engineering or S-

majors only.

2. Emphasis on Posix O.S. LINUX Open Source O.S. & Device Privers
Trugramming and Development. Schability of Ventical Solution.

Course Description

Experiments dealing with advanced embedded software programming concepts, interfacing techniques, hardware organization, and software development using embedded systems. Individual projects.

3. (west tornat: In-Person.

Hands-ON Class. Prototype System

NUDA JOSON NAND. (JPU (128)

4 GB Version Tetrack

Option Z. BroadCom Pie3B+, Pie4.

mption3. RIX-V FPGA Dev. Board. Mas Limitted

LFC17tg, PCTOS. NXP DOV. FORUM. May Not Meet the Need for Dur Project

Selection Decision in I week

4. Text Book & References

Set I: Datasheet(3), CPU Datasheet, Developer Guide, Set I: NUDA Daveloper Forum. Set III: PPTS, Sample Gode, Handouts in the Class githoub.

Course Materials

Instructor's teaching materials and online resources.

- 1. Professor's git: https://github.com/hualili/CMPE244
- 2. Jetson NANO Jetpack download https://developer.nvidia.com/embedded/downloads

Other Equipment / Material

Hardware Equipment: You may choose any one of the following options. For detailed selection information, I will cover it in the introduction session of the class. Option 1. Nvidia Jetson NANO Board with minimum 2 GB RAM; or Option 2. Pie 3B+, or Pie 4; Option 3: Nvidia Jetson Tx2 developer kit; or Option 4: LPC1769 CPU Module:
 https://www.mouser.com/NXP-Semiconductors/Embedded-Solutions/Engineering-Tools/Embedded-Processor-Development-Kits/Development-Boards-Kits-ARM/_/N-cxd2t?
 P=1z0jm4m&Keyword=LPC1769&FS=True&gclid=Cj0KCQjwqKuKBhCxARIsACf4XuHyN8WfqtQ24WGgtoMdKd6n-kl7c-YNz-r1hTcPt0ErdZN62jrMQmgaAtXZEALw_wcB_ or Option 5: Samsung ARM11 developer platform.

Pie 4

2. Linux Host Machine (Ubuntu 18.04).

2021F-114-handout-gpi... Add files via upload

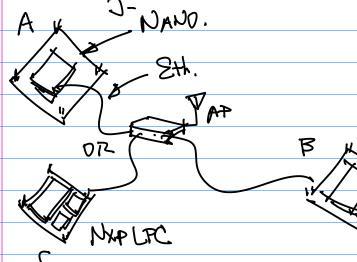
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V. Somester ID

A & B

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A Target Platform:



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	Assignments and projects: Midterm Exam:	30%		Project
	Final Exam:	40%		U
	Total:	100%		