CmpE242 Spring 2022

Jan 26 (Wed) First Day of the Class.

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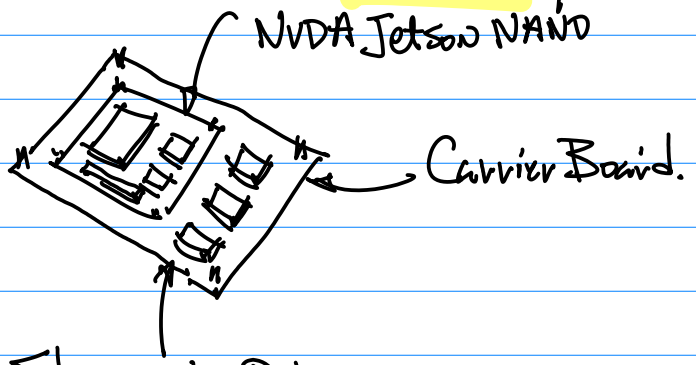
Textbooks + References:
No Textbook, however GPU Datasheets Are employed as a Base Line Reference, and serves as a textbook.
1. ARM11 GPU Datasheet, from Samsung & SoC Document for the development Board.
2. NVDA Jetson NANO Developer Kit. Reference Source for people using NANO as a target platform.
System-on-module Document. (Not used that much in this class).
Design Guide As 2nd primary Ref. for Jetson NANO.
3. Broadcom Pie. BCM2835 (CPU Datasheet).

Selection of Target platform for this Course.
a. NVDA Jetson NANO
b. Broadcom Pie
c. Samsung ARM CPU
d. Nxp i8

Note: Select your target platform from the options a–d.
(Consider Nvidia Jetson NANO).

Programming Languages: C/C++ / python
O.S. Support: Linux.
Rich I/O I/F Support.

Requirements for the Course:
1. Design/Build A State-of-the-Art Prototype System; Each Person will have to have one individual system.



2 Form 4 person team, Work on Homework, Project, However All coding, Report etc have to be complished individually, no code, Report, Project etc. Can be Shared.

Grading:
1. Midterm Exam, Close Book/Close Notes 30%. Prototype System will be needed to Answer Design Questions, and to execute programs. Need to take photos of the prototype.

2. Final Exam, Similar Format, 40%. Prototype System is a Part of the Exam.

3. Homework, Projects. 30%. 1st Project During the 1st half of the Semester. 2nd Project By Team Project, @ End of the Semester, Requires PPT Presentation & Live Demo.

Announcement in Class, in Written form Both in the Lecture Notes and ON SJSU Canvas.

Late Projects/Homwork 1 pt Panelty.