## Comp. Architecture Slide 1 -Computer Architecture Definition: in Lo Jesign JI che die lin Lo Jes \* 5 aulis 1 au Components Il alea Già User Slide 2, 3, 4,51-· Solt ware (1) -0 ~ Og Sia Computer 51\* Hard wave (T) able pjl Design de jemi (sem mies ol \* Trade offs يخسر حاجلة في مقابل انه يكسب تاسه (السعر مثلاً بالنسنة للحودة). · Components of a computer: \* pro Cessor \_\_ orders is lu po modifice \* Memory (instruction, Data), I/O Devices (Speakers, Keyboa Ex. [ Embedded Systems ( ADC, Jensors, \* Embedded system / pro Cessor \_\_\_ Micro controller. Course Contonts: \* How to make a Computer go trast? \_\_\_\_ Dr/omar Nasr. \* How different components Communicator > Dr/khatlab. Ly with each other or with the physical word. (1) within a computer System (interconnection). Ly How Components Communicate with each other? (2) inter Pacing. How components Communicate with the outside world?

Slide 8: Control Structures of Address of Data ou channel Ex. :- USB \* Bus variations :-/ off chip Buses \* on chip Buscs pro Cessor Il bo o well red Chip Il our بای حاجه برق (سنو فعالیم) ا الشويها / parallel Buscs. \* Scrial Buscs 12 de Cixim Pata 11 bex lyo Tixi Data 11 [Ex USB] usb colo / Wireless Buses \* Wired Buses (Still on Research.) (Alc Jemia) Slide 9 Ex-1- off. chip Buses :-Bus memory Disk Network USB DVD memory II NI CO gal I memory I NI Le Bo la Example II & \* and Disk John Pisk John انها تسى لم ما الـ Devices الما فيه تخلف فده هي a D System Il Jeus d'Elle lies and llander of 15

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