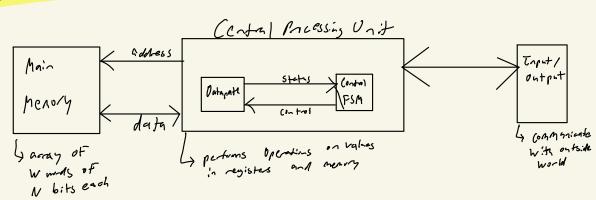
Designing an

Joshnuhin Sex

ver Neyman Midel



Express program as a seg of coded instructions

Freeze program as a seg of coded instructions

Freeze program and instructions to binary data

Freeze program

Societies instructions of the program

Societies instructions of the program

2 nstructions - each instructor has a Mograer Counter - openfil a speake to be performed to be performed - 50-10 sprant and destination for the result in the un received are executed Ly @ Fetch instruction -) (2) decode instruct. Sogenfally (4) executer (3) read sec operands

(5) write dist operands >> (6) compute nout PC

Instruction Ser Architecture
- Contract between Soft. ham.  Ly functional def. of Operations and Storage location  Ly precise description of how soft. con invite/scuess then  The Specifies what hardware does (not implementation)  The Specifies what hardware does (not implementation)
- Design  Low many operations?  Thow many operations?  What type/how much storage of common case Ciesases  Low to encode instructions?  Low to future proof?
Beta ISA  Sturge  Ly processor: 32 registers  Ly processor: 32-bit byte addresses  Ly main memory: 32-bit byte addresses are multiples of 4  Ly bytes/wind implies addresses are
- Instruction Format:  OPCODE Co Co Constant  OPCODE CO CONSTANT