4 bit PC

Components	Bits	Signals
PC	4	C_p , L_p , E_p
MAR	4	L _M
Memory	8	CE
IR	8	L _I , E _I
А	4	L _A , E _A , S _A
ALU	4	S ₂ , S ₁ , S ₀ , C _{in} , E _U
TEMP	4	L _T
В	4	L _B , E _B
С	4	L _C , E _C
OUT	4	Lo

- Step 1: Design Components, test each of them using logic states and logic probes
- Step 2: Connect components, test data movement
- Step 3: Find microinstructions and control words (can be done in parallel to 1 and 2)
- Step 4: Write control words in ROM.
- Step 5: Write test RAM contents.
- Step 6: Test each instruction