



# Final Project: Part 2

COEN 122



# Demo

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- Demo and report are due on Friday Week 10
- 1 submission per team

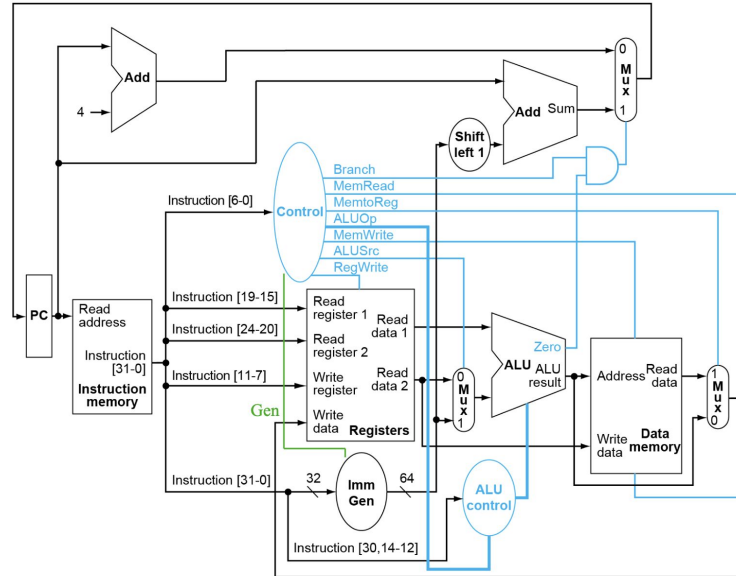


# Control Unit Truth Table

- regWrite: whether to write on register file
- memtoReg: whether to write data read from memory on register file
- PCtoReg: whether to write PC on register file
- branchN:
- branchZ:
- jump:
- memRead: whether to read from data memory
- memWrite: whether to write into data memory
- aluOp: which operation for the ALU is needed



# Simple Datapath for R-Instruction Format



| op     | rs    | rt    | rd    | shamt | funct  |
|--------|-------|-------|-------|-------|--------|
| 000000 | 10001 | 10010 | 10000 | 00000 | 100000 |

