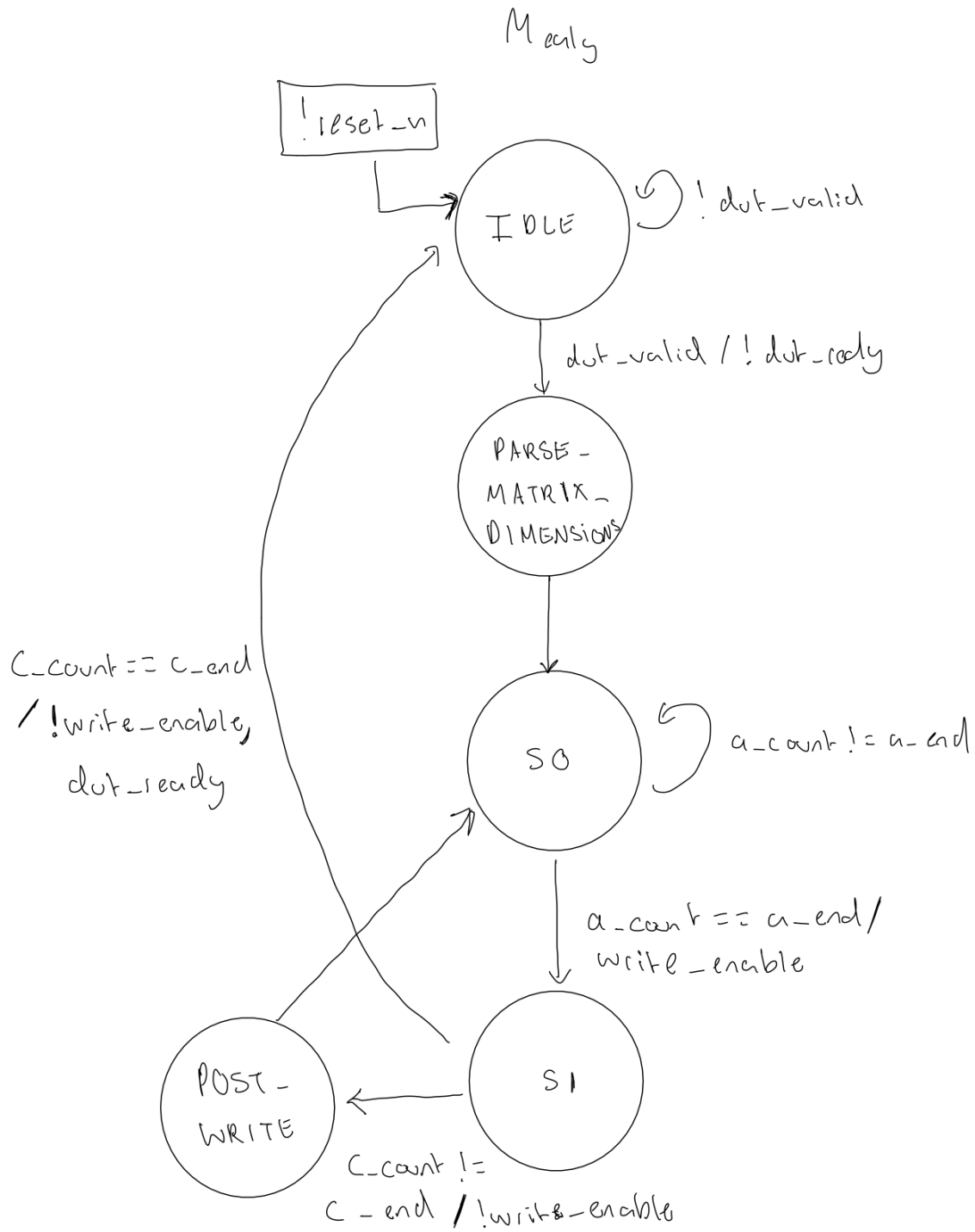**Report First Page. Must match this format (Title) – attach other pages as needed**

StudentID. Name:

200431173, Thiago Gesteira

Delay (ns to run provided example). 45200	Area: (um^2)	1/(delay.area) ($ns^{-1}.um^{-2}$) :
Clock period: 7	Logic: 5060.9160	4.37 x 10^(-9)
# cycles": 9040	Memory: N/A	

FSM Diagram: (on next page)

Mealy

!reset_n

IDLE ⟲ !dut_valid

dut_valid / !dut_ready

PARSE_MATRIX_DIMENSIONS

C_count == c_end
/ !write_enable,
dut_ready

S0 ⟲ a_count != a_end

a_count == a_end /
write_enable

POST_WRITE

S1

C_count !=
c_end / !write_enable

Grading Rubric

Element	Standard	Grade
Report	FSM Diagram; simulation/synthesis details.	**10/10**
Missing one of the elements above	**5/10**	
Deficient in all elements above	**0/10**	
Code	Looks correct in grammar and matches drawing; runs correctly on provided data set.	**20/20**
Missing one of the elements above	**10/20**	
Deficient in all elements above	**0/20**	
Mystery run	Mystery data set runs correctly.	**10/10**
Shows incorrect behavior	**0/10**	
Timing	Meets setup and hold	**5/5**
Meets only one	**3/5**	
Does not meet either setup or hold	**0/5**	
Area	Reported	**5/5**
Not reported	**0/5**	
Total	**Out of 50**	