


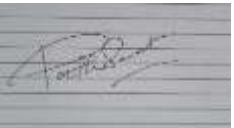
Hope Foundations
FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY

Department of Electronics Engineering

Mini-project- Details

Subject: VLSI Design
Class: TE

Year: 2020-2021
SEM: VI

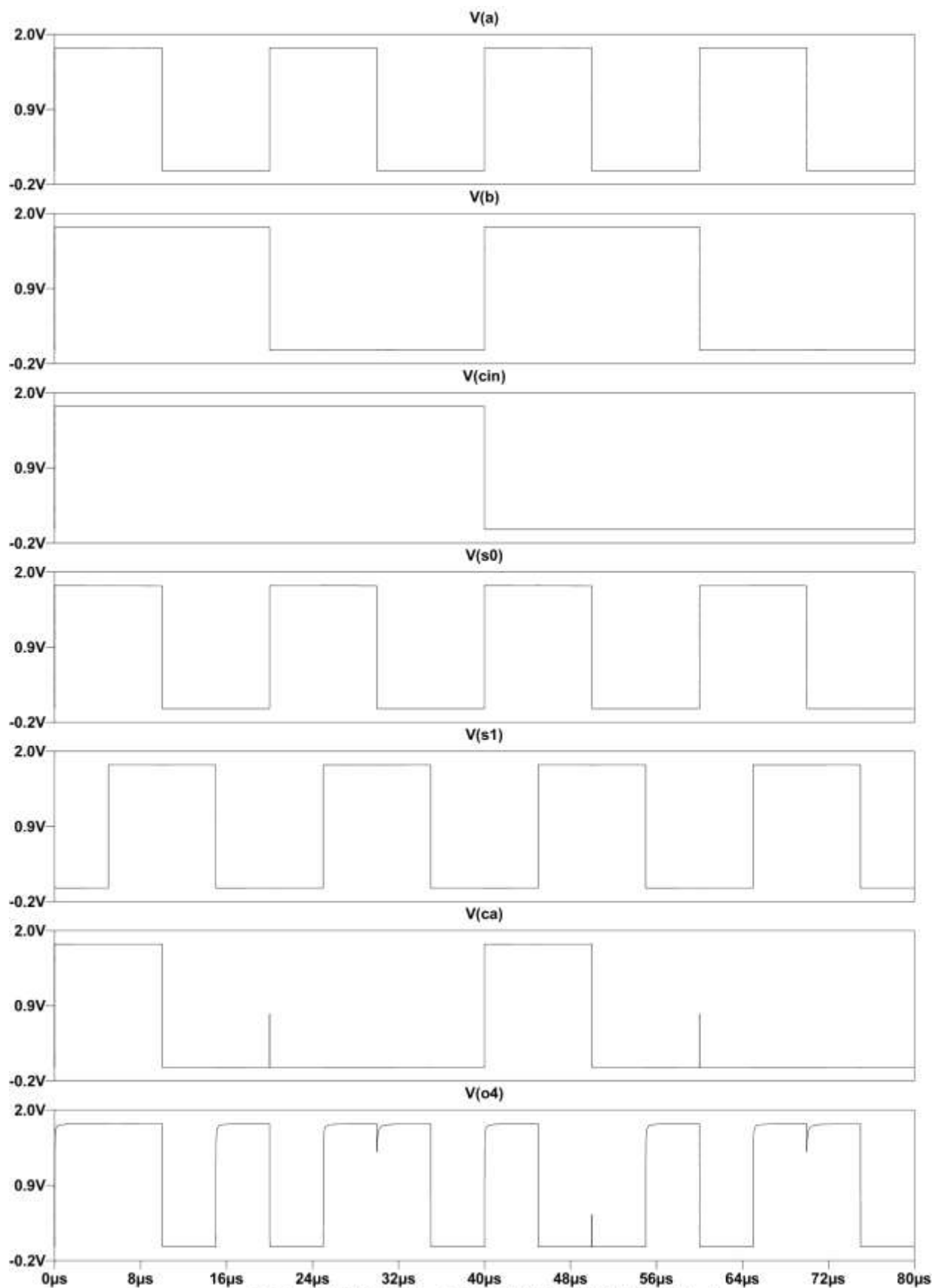
Name of Advisor: Prof. Vrishali V. Nimbalkar		
Project Title: 1 Bit ALU		
Roll No.	Name of student	Sign
1	Bhave Omkar Vinay	
17	Sawant Parth Rajesh	

Abstract:

At its most fundamental level, a computer consists of a control unit, an arithmetic logic unit (ALU), a memory unit, and input/output (I/O) controllers. The ALU performs simple addition, subtraction, multiplication, division, and logic operations, such as OR & AND.

We have designed the Adder using the CMOS logic, AND & XOR using Transmission gate logic and NOR using the Pass Transistor logic. The following chapters consider every part of the ALU (i.e. Adder, AND, NOR and XOR) gates with their respective logic. The last chapter is based on the final output obtained when the above circuitry is combined to form an ALU and the obtained result is correct.

Simulation waveforms:



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Evaluation Scheme for Mini-Project:

Rubrics/ Name	1 Bit ALU
Complexity (5)	
Design verification(10)	
Involvement in design of Hardware/Software(15)	
Completion status(10)	
Total Marks:	

Signature of Project Advisor

Prof. Vrishali. V. Nimbalkar