**ECE 3300L**

**California State Polytechnic University, Pomona**

**Group G**

**Nathaniel Garcia and Mikael Parsmyan**

**Lab Report #2**

**06/25/2025**

**Design:**

**Decoder 4x16 (Made of two 3x8 Decoders):**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**A close-up of a computer screen

AI-generated content may be incorrect.**

**Decoder 4x16 Behavioral:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Simulation:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Implementation:**

**A screenshot of a white box

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Contribution:**

**Nathaniel Garcia:** Xdc file, code for testbench, simulation and Demo

**Mikael Parsmyan:** Code for 3x8 Decoder, 4x16 Decoder, and 4x16 Decoder behavioral

Youtube Demo Link: https://www.youtube.com/watch?v=jyJIWkoec7k