## Lab 4 Individual Report

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An Aggie does not lie, cheat or steal. Nor does an Aggie tolerate those who do.

> Group members: Kyle Crusius — 428003578 Huy Lai — 132000359 Vishnu Naidu — 630004567

## **My Contribution**

- 1. Bi-Directional Data Bus
- 2. Decoder

## **Advantages and Disadvantages**

This team based design made it difficult to communicate and coordinate with team members, specifically regarding the approach we were taking for specific design components. However, the duration of this lab, being slightly longer than previous ones, allowed us to work past this, and we ended up splitting a workload that would have been significantly more challenging to handle alone.

## **Best Design**

Kyle's adder and subtractor designs were superior.

Huy's shifter could be improved by using shifters more optimally, utilizing 1-bit, 2-bit, and 4-bit shifters in combination instead of 7 individual shifters.