CE1: Hands-On Computer Engineering

Research Problems 4

1. What does a capacitor do and, qualitatively, how does it work? What about an inductor?

2. What types of flip-flop are there, and what do they do? Don’t forget to provide citations and write your own description.

3. Research another type of adder besides the ripple-carry adder discussed in class. Just give a paragraph description in your own words how it works and how it is better or worse than a ripple-carry adder.

4. Research ways of minimizing your logic from Homework #3. Try searching for “Karnaugh map” or “Boolean Algebra”.