**Analysis and Summary of a Selected Computer Architecture**

**CIS 5220 Research Project**

**Due: November 16, 2015**

For this project you will select a computer that you want to learn more about and present a summary of its architecture to the class.

1. Look at various computers, both old and current. These can range from the beginnings, such as ENIAC, to super computers, such as the Cray, to desk-tops and lap-tops, integrated processor chips, such as Intel 8080, 80486, Motorola 6800 or 68000, Zilog Z8000. These are just examples.
2. Information about the selected computer must be widely available for use.
3. Analyze the selected computer’s hardware architecture. Do not look at the software.
4. Make sure you cover:
   1. Central Processing Unit (CPU) and it’s registers
   2. Arithmetic Logic Unit (ALU)
   3. Floating Point Unit (FPU), if present
   4. Cache, if present
   5. Memory Management Unit (MMU), if present
   6. Main memory architecture
   7. Instruction fetch and decode unit
5. Any additional hardware features that interest you
6. Provide a discussion for each hardware feature to explain how that feature operates and include any special or interesting capabilities.
7. Write up the report in the report template I will provide you
8. Present a summary of the report to the class. Plan on having 10 minutes for the presentation.