

Homework #1
CSCE 4114/5114 Embedded Systems
Due August 30th, 2024

Problem #1.

1. Sign in or create an account at learn.zybooks.com
2. Enter zyBook code: UARKCSCE4114AndrewsFall2024
3. Subscribe

This will be graded by viewing if you have answered participation activity 1.1.3 on Moore's Law.

Problem #2.

List three characteristics of embedded systems not found in general purpose systems.

Problem #3.

Describe the major IP components of the baseline System on Chip (SoC) architecture that you will create in the laboratory.

Problem #4.

Consider a chip in a smartphone today. If Moore's Law holds, that chip in 6 years would hold how many times more transistors? (hint: from the book)

Problem #5.

Consider a chip in a smartphone today. If Moore's Law holds, the transistors within that chip in 12 years would occupy what fraction of the chip's current size? Write answer as a fraction in the form: 1 / 4 (hint: from the book)