Part 1

Design & Fabrication of an 8086 Microprocessor System

In this part of the lab, the students are required to design and fabricate an 8086 based microcomputer system. The lab experiments in this part, consist of designing, assembling and testing of the fabricated system. The design, assembling and testing will be carried out by the students in an incremental manner as indicated below.

1. Connecting and testing clock driver circuit with microprocessor.
2. Connecting and testing address buffers and data bus drivers with microprocessor
3. Connecting and testing memory and I/O decoders
4. Connecting and testing memory devices (EPROMs, RAMs) with the processor
5. Connecting and testing I/O ports.
6. Writing assembly language programs for simple applications.