

## **Abstract**

This subject purpose is learning the ability of designing the IC layout, so we can get the license to become an IC design engineer. We choice CMOS Inverter and Differential Amplifier Circuit for the goal.

In the subject is using Xmanager4 become a server platform to connect other software for the IC layout design.

Related software included:

1. The schematic software is offered by Chip Implementation Center (CIC), which is made by Cadence Company. The software called Virtuoso Schematic Editor designed for the Academia. It is using to create circuit architecture step by step.
2. Circuit simulation software is offered by Chip Implementation Center (CIC), which is made by Synopsys Company. The circuit simulation software is called HSPICE, which is as same as SPICE format. The characteristics of the circuit can be used in many analog.