

# Organization of Digital Computer Lab

## EECS112L/CSE 132L

### **Assignment 1**

#### **Working with CAD tools**

prepared by:  
Student name:  
Jack Melcher  
Student ID:  
67574625

EECS Department  
Henry Samueli School of Engineering  
University of California, Irvine

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## **1 What I've learned**

### **1.1 QuestaSim**

- Questasim can only be used on zuma or crystalcove Unix servers
- How to setup a project that uses Questasim
- Install Questasim for my use on the server for the project
- Compile the VHDL(.vhd) design files and the System Verilog(.sv) testbench files
- Optimize the VHDL design
- Simulate the design
- View the waveform

### **1.2 Cadence**

- Cadence can only be used on malibu or vivian Unix servers
- Enable Cadence for use on my account
- How to setup a project that uses Cadence
- Compile the VHDL(.vhd) design files and the System Verilog(.sv) testbench files
- Elaborate the VHDL design
- Simulate the design
- View the waveform



## 4 Conclusion

I would prefer to use MentorGraphics QuestaSim toolset for the 112L course and because I found the compiling and optimization of the code to be easier and the display of the waveform more intuitive.