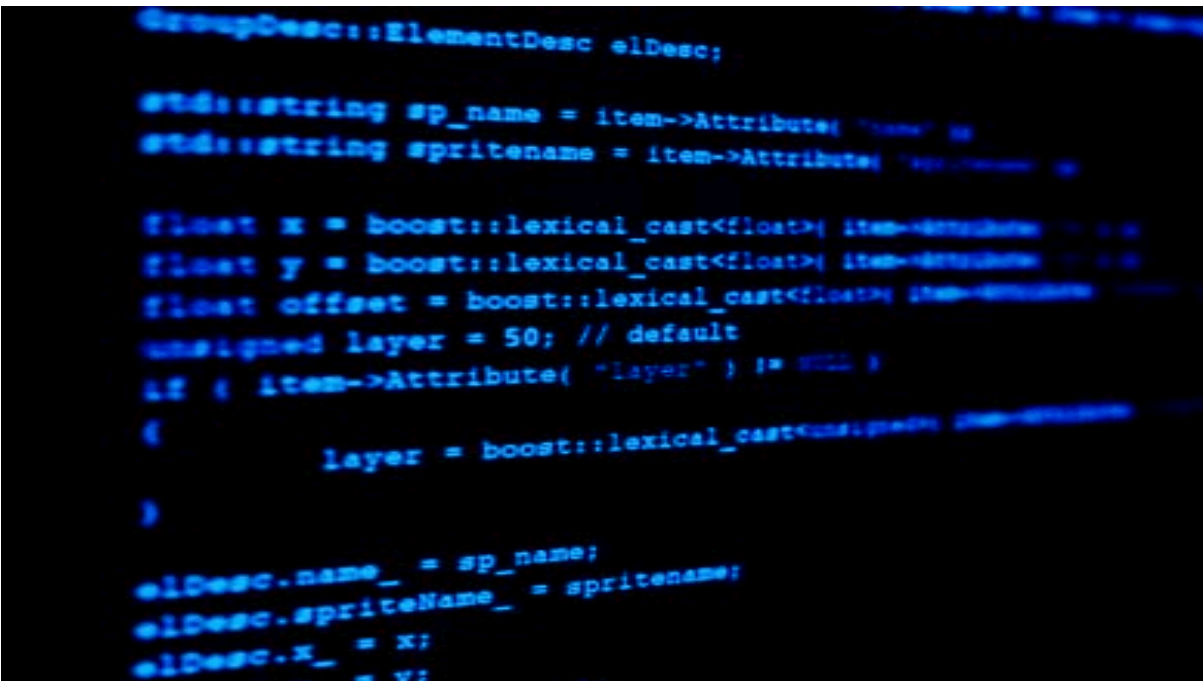
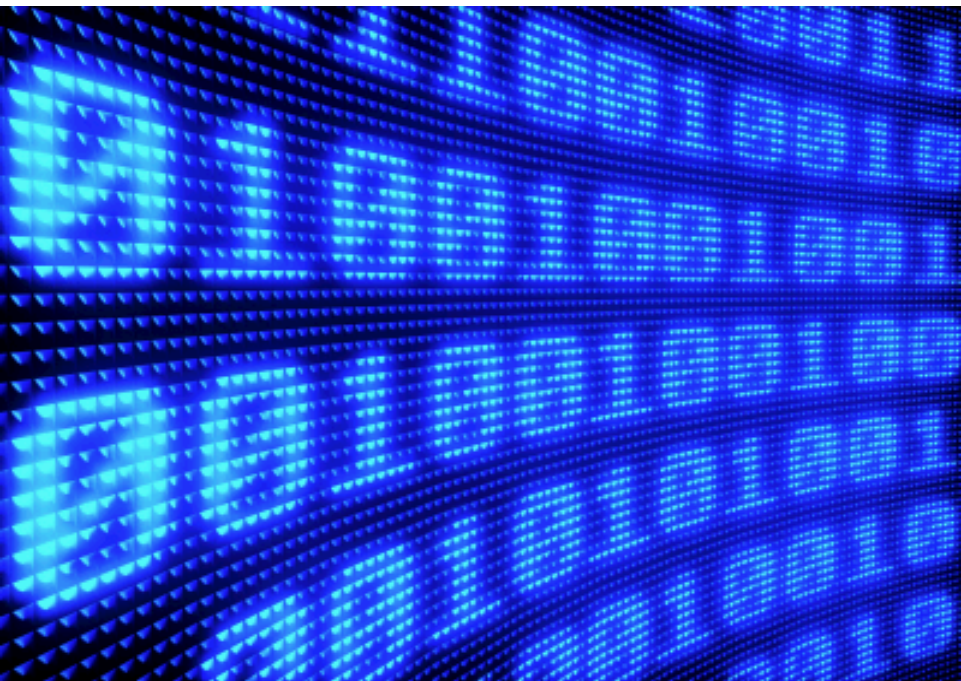
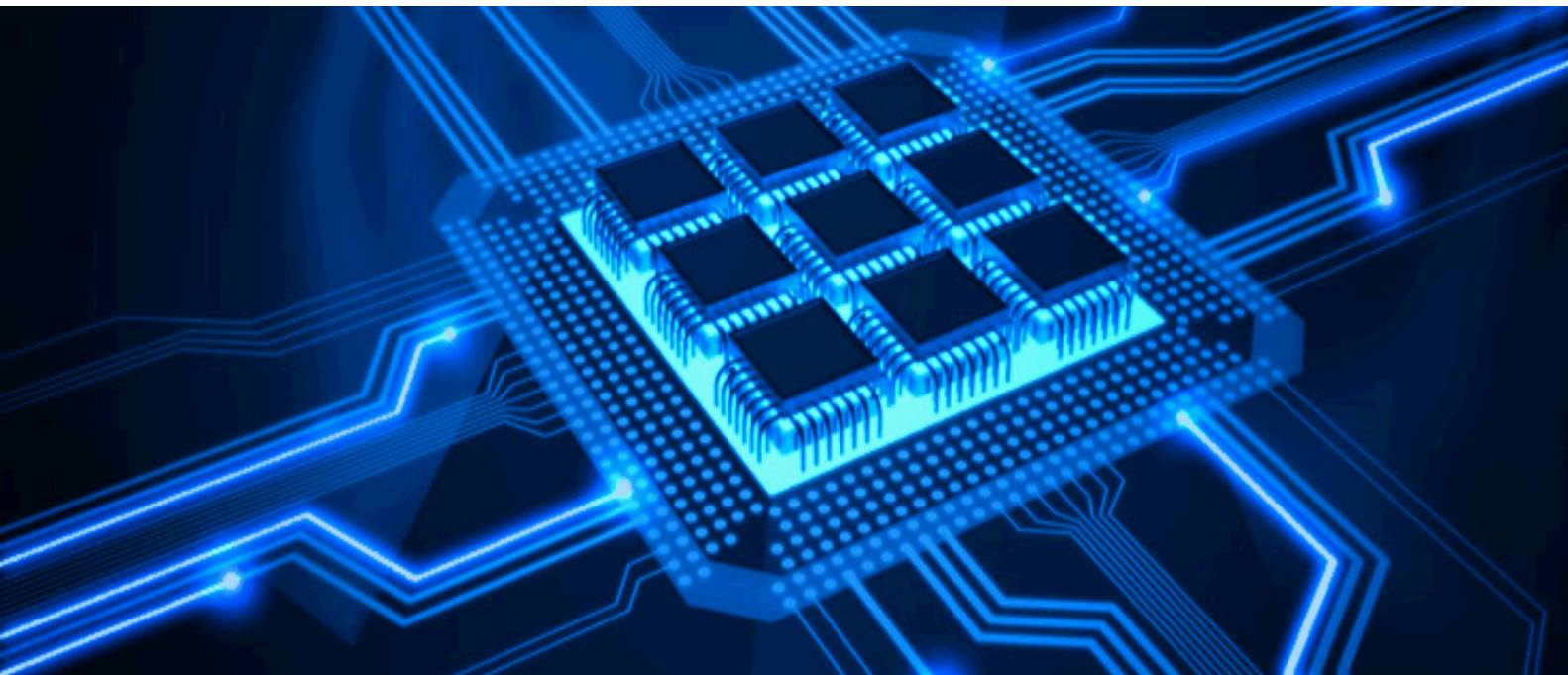


Exceptional service in the national interest



Projects Overview

Name: Kamran Coulter
University: Oklahoma State University
Major: Bachelors of Science in Electrical Engineering
Expected Graduation: May 2017

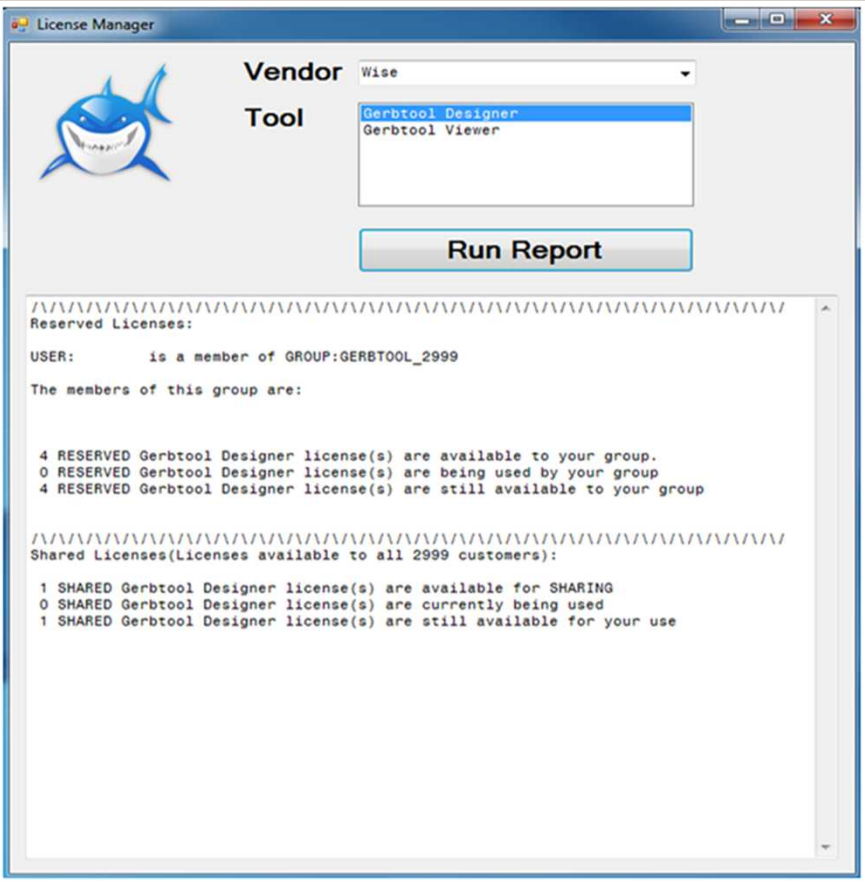
Manager: Kelly Wiegandt
Mentor: Joel Blend
Org: 2999

Projects:

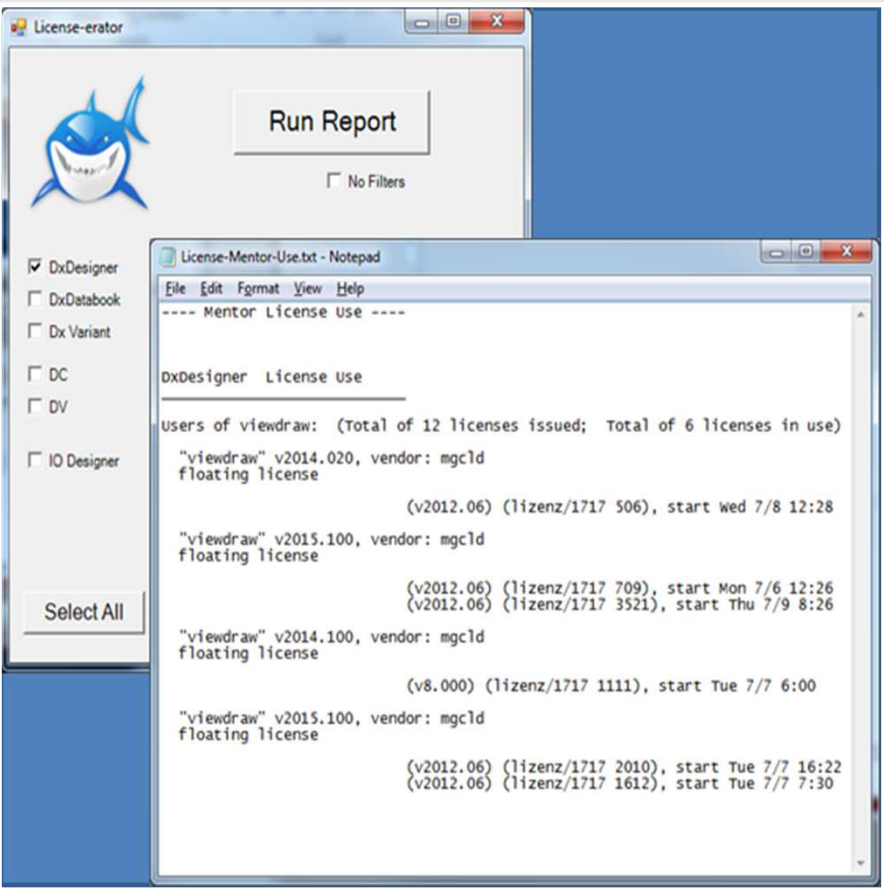
- ECAD Support Scripting
- ECAD Schematic Capture & PCB Layout
- High Level System Analysis

ECAD Support Scripting:

Final User Interface



Initial User Interface



Design

- Clear user interface
- Scalability
- Maintainability
- Concise Reporting

Need

- New customer grouping scheme to be implemented
- Needed for effective communication to the customer

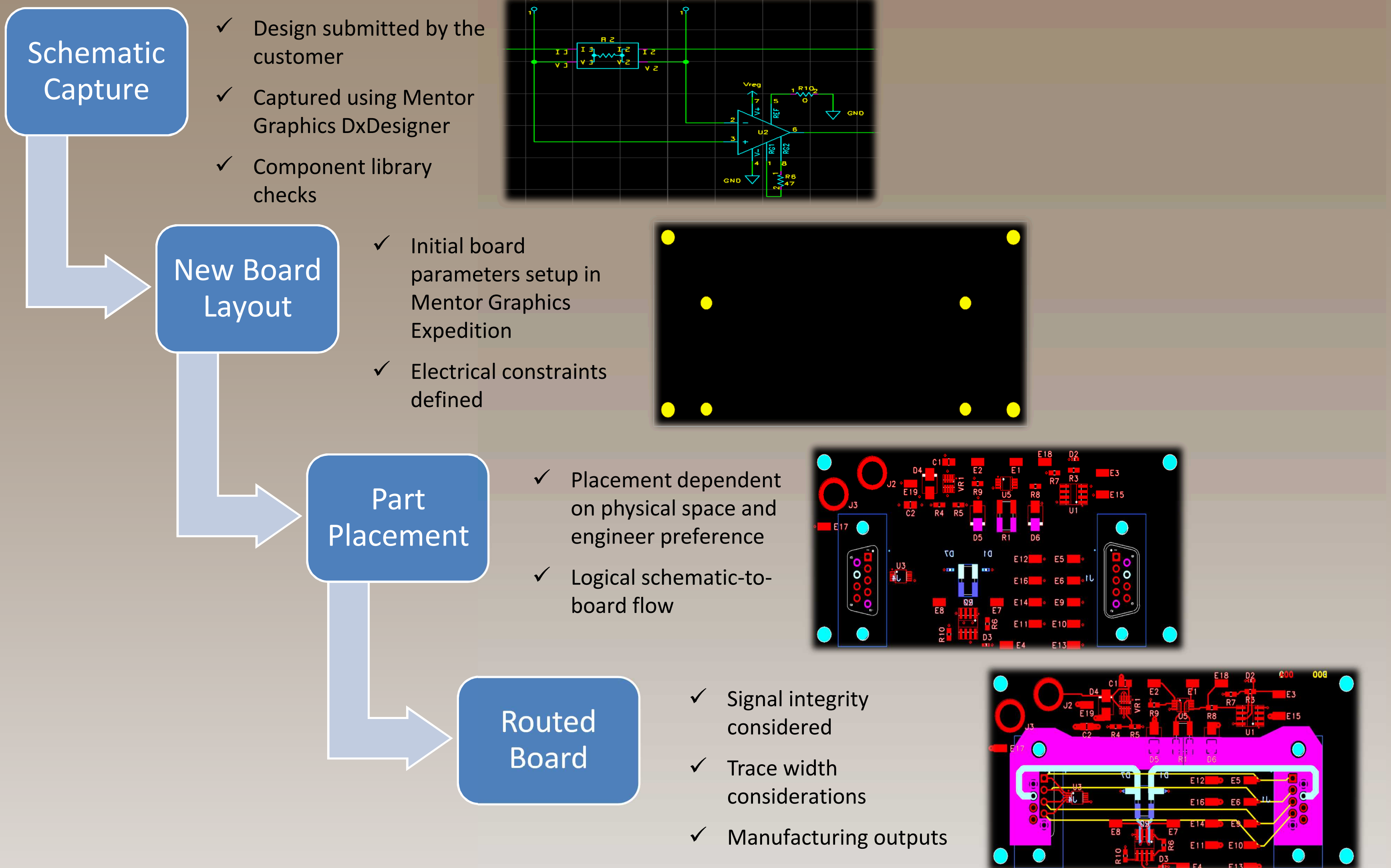
History

- Preexisting script used primarily by ECAD support
- Used to monitor license usage internally

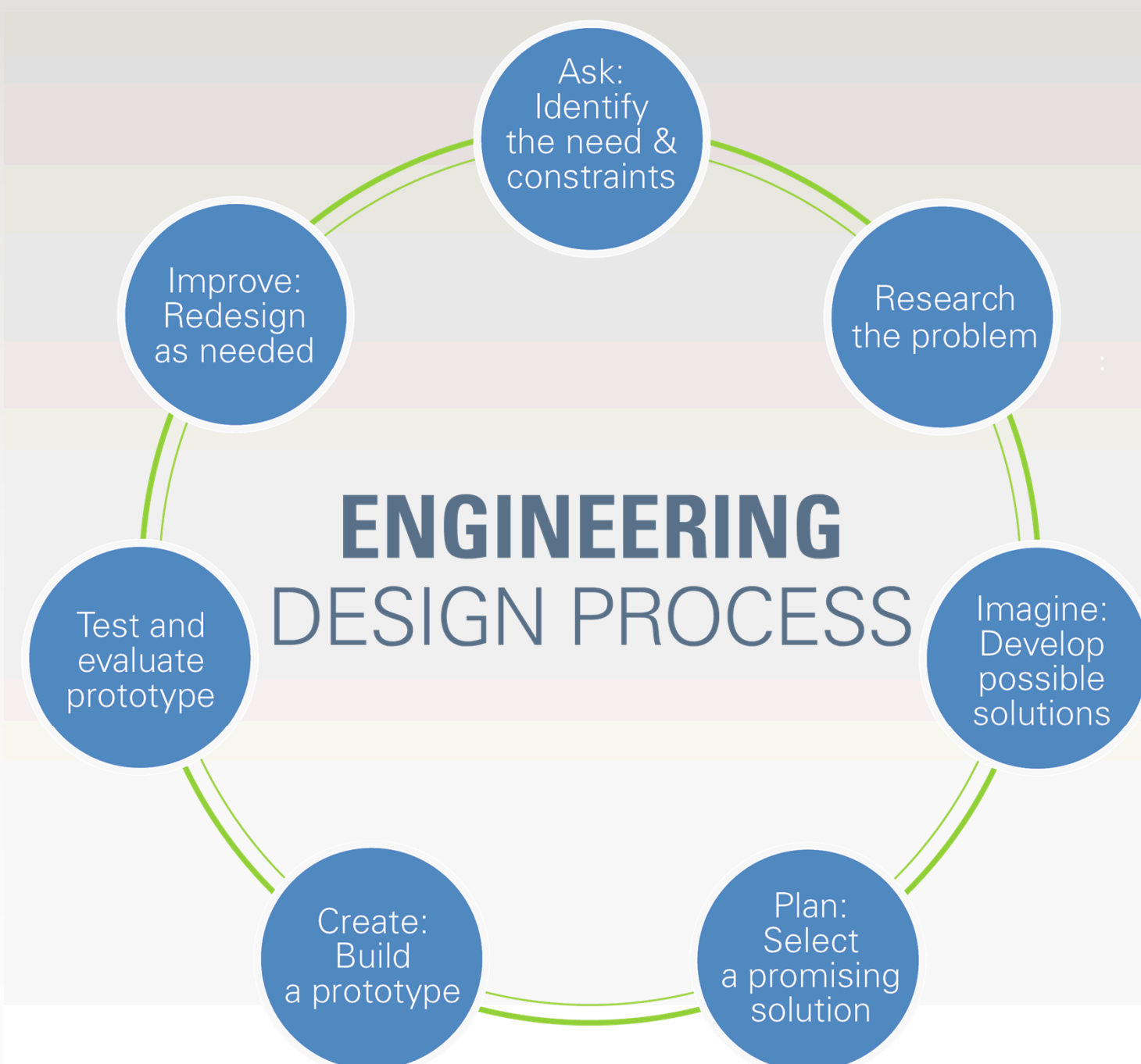
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ECAD Schematic Capture & PCB Layout:



High Level System Analysis:



This project included the analysis of a constrained power system to be used in a test configuration. I was assigned to a multidisciplinary engineering team. We were given a set of unique constraints, and tasked with outlining multiple systems to meet those constraints. This included not only selecting promising solutions, but testing their validity on a high level. We used the engineering design process to arrive at our solutions.

