

ECE 3rd year Laboratory LAB #1

Analog Design and Simulation using OrCAD[®] Capture and PSpice[®]



Figure 1.1. Golden Gate Bridge



Figure 1.2. Boeing 777

What do the Golden Gate Bridge and the Boeing 777 pictured in **Figure 1.1** and **Figure 1.2** have in common? Both of them were built with no prototypes. In other words, they were right the first time. How was this possible? Sufficient

Engineering Analysis OR Simulation

was done prior to construction to guarantee that each piece of each product would function properly. Why perform this level of engineering analysis? To do otherwise, the cost is too high.