

## **Abstract**

Simulation, specifically discrete-event simulation, is a useful tool for industrial and manufacturing engineers when dealing with system analysis. Currently, manufacturing engineers are only exposed to simulation for only a few weeks of their curriculum at Cal Poly. A series of labs are directed by a teacher's assistant on how to complete a successful simulation experiment. However, there is no text available for student use during this demanding learning period. The simulation learning process involves learning a software program called ProModel, which students with little experience are expected to code, run, and interpret data from complex systems. By creating a manual that promotes student learning, provides a tutorial to the ProModel software, and the simulation process as a whole, students will be more apt to absorb key concepts and able to contribute to a simulation team in industry.