Thursday, April 13, 2017

Project Proposal

Airport queue Simulation

- The project team will create a simulation of the Charlottesville-Albemarle Airport's (CHO) security and baggage-check queues. Team members will travel to the airport at a time of normal traveler traffic and record when people enter and leave the security lines, and then use this to build a simulation of the queue. We will use this model to identify when the system can be at critical capacity, and to estimate the average time people spend in the system at a given time in the day, such that we can provide air travelers with an appropriate time to show up at CHO to provide enough slack time to make a flight. A goal of our project will be to provide the airport with a recommendation as to how they can improve their queue. The tools we will use are Excel, Matlab, and a timer of sorts.

  - Roles:

    - Jordan Lopez - Simulation and Matlab coder
    - Justis Midura - modeling and data collection
    - Fan Feng - experiment
    - Maxwell Weiss - Analysis