Work Completed:

This week was productive for the whole group. Eva and I combined all our programs into one master program. I ended up altering all of the motor programs, even the basic servo motor program. We decided to use relays with our motors in order to utilize the digital lines. This way, we use a clock function to generate the square waves and added in several Boolean controls in order to customize which motor would be run every time the basic program was included in the master program. Tests were run with 4 motors and accurate sequences were executed. The only thing that held us back from completing the program entirely was that our servo motors have not come in yet, which we need to input the duty cycles into the programs. The following are glimpses of the LabVIEW master program.
Loading and Cutting Program:
Motor Program: This is the building block of motor control.

Kevin worked on the circuitry of motor control and testing the device using relays. He assembled the cutter, funnel, and pill drop apparatus.
**Future Work:**

This week we will complete the project. The major issue is getting LabVIEW to run on the PDA. The PDA came in last week, but we were unable to connect the PDA to the PC. As soon as the servo motors come in, we will rebuild the device to include them.
and find all the duty cycles we need. The duty cycles will be added to the program and all
the testing will be done to make sure the device works correctly. If we can get the PDA
running, we will do the same tests with it as we did with the PC. We then need to build
the case. The aesthetics of the case are probably the least important thing since we need
our device running by Friday and we have a lot to do.

**Project Review:**
Although we are down to the wire and have quite a bit of things left to do, we are
in better shape than we thought we’d be a few weeks ago. We’ve overcome many
hurdles, big and small, and if everything runs smoothly this week, we should be fine.

**Hours Worked:**

Kevin: 16
Jackie: 11
Eva Marie: 8