WORK COMPLETED
The device is now up and running. The cutting sequence and the dispensing sequence have both been tested and the sequence of events and motor control functioned successfully. A method was also developed to use real time to have the machine running at all times. This method involves obtaining the time from the system clock every second. This function is done within and while loop, then every thirty minutes the time is passed to the main program. The loop and the main program are contained in separate events in the sequence diagram so that the time is obtained first before beginning the main program. This sequence event is then contained in a while loop. It was originally in a timed loop but the timed loop caused the motor to respond erratically most likely do to the relay’s turning on and off constantly, thus obstructing the signal. It is unknown why the timed loop caused this error, but the while loop can accomplish the same task and so it was used to replace it.
FUTURE WORK

Future work involves developing the user manual and completing the final report and presentation. A few minor adjustments will also be made to the device, including developing a case for it and improving the suction on the vacuum. Efforts are also going to continue to get the installation cd for the viewsonic PDA.
PROJECT REVIEW

The project is working rather well, improvements could be made to the vacuum system. It would also be beneficial to get the PDA working, since it would add to the mobility of the device and allow for the touch screen to be used.

HOURS

Eva Marie: 30 hours