Memorandum

**To:**  R.M. Schafer  
**From:** Team AutoBev  
**Date:** February 21, 2010  
**Subject:** Meeting Five Agenda

Team Leader: Liz

Minutes: Lori

1. **Updates/Questions:**
2. Started testing communication between user interface and microcontroller
   1. Send chars to microcontroller and display on LCD display (using getc())
   2. Testing using putc() to send chars back to GUI
   3. Issues
      1. Limited to sending 5 characters
3. Decided on using logical bitwise testing with the ‘AND’ operator to check which bits are set in the received bytes
4. Lori wrote program to enable communication between user interface and bartender interface
   1. UDP client/server program
   2. Displays type of drink order and drink order number to bartender (server), shows drink order number to the user (client)
5. Decided to use a proximity light sensor to detect cup
   1. Will trigger an interrupt when detecting a cup to enable beverage dispensing
6. **GUI**
7. To do: integrate and test client/server program
8. Test handling the case when more than one COMM port is connected to the computer
   1. Ensure proper operation when both MSR and microcontroller are connected
9. Possibility of using SQL database as opposed to excel file to store customer information
10. **Microcontroller**
11. Write pseudo-code for main program
    1. Determine interrupt priority (light sensor, data received, flow sensor, emergency stop)
12. **Board**
13. To do: Finish board design into Eagle.
    1. Add emergency stop circuitry
14. **Network between customer/bartender**
15. To do: Integrate client/server program with GUI
    1. Verify that the correct drink and order number appear on bartender/ user interface
    2. Ensure queue is updating correctly when bartender indicates that order is completed
    3. Test to ensure that server can interrupt client to update current drink order number on user interface
16. **Additional questions**