

## LAB #8 – Quality Assurance Testing

**Remember**, if you need to get Lab #7 graded, you need to show your lab to the TAs within 10 minutes of getting to lab, and you and your partner will not receive lab credit if you do not get checked off before leaving each lab. Once you have a zero on a lab, then it cannot be changed because we have no way of know if you were there or not!!!

**Reminder:** All of our labs involve paired programming. You do not have to keep the same partner for each lab, but you **MUST** work with someone in each lab!!! First, find a partner for this lab. It can be the same partner from the previous lab or a different partner.

### (4 pts) Engineering Expo Interview

To begin lab, you will find someone in the lab who is the opposite EECS major from you, i.e. ECE major pair with CS and vice versa. Exchange your interview findings with the person from the other major. After discussing this as a pair, then share with your TA the project interviews for the both majors.

### (6 pts) Testing Software Thoroughly

It is very important to learn to test your software (or hardware) completely before releasing it. All software and hardware go through quality assurance for testing, and your job is to test this software as thoroughly as possible. First, download the executable and sample input file: [testing\\_fun.exe](#) and [input](#)

This program simply reads a contact's name and information from a file to store into some address book. The user wants to keep track of the date, when a specific contact was added to the database. The file contains the following information (in this order!!!):

```
Name
Street address
City
State
Zip code
Phone number without dashes
```

How to run this program:

```
testing_fun.exe -f input
```

Your job is to test this program and find as many errors as possible given specific testing data. You must document the input, the results (good and bad), and possible coding problem/fix. Here is an example:

Testing Data	Results	Possible Fix
testing_fun.exe -f input	Runs with message reading from the file and a prompt for today's date	

testing_fun.exe -f	Runs, but it hangs at the message reading from a file	Make sure to test for a filename supplied with the -f option: If one isn't supplied then prompt the user or give error message!!!
testing_fun.exe -a	Runs and prints an error message	
...	...	...

**Find another pair in lab to exchange your finding.**

- Are there input values the other group used that you didn't think about?
- What are they?
- Are there input values you both used but had different fixes?
- What are the different fixes?

**RPS AI Challenge:**

For those interested, you can enter your RPSGame into the best RPS AI challenge!!! Get together with a TA, and swap your RPSGame executable with someone else to run for 50 games to see whose RPS AI wins the most. **Ideally we want to run 100, but I don't know how long this will take you!!!** Each lab will have a winner, and these winner results will be compared across labs to know our first, second, and third place winners.