CE1: Hands-On Computer Engineering

Research Problems 6

1. (Required (!), if not yet done). SWE meetings Thursdays 5-6, BE318. NSBE is holding
a meeting Wednesday, May 6th at JBE 318 from 4:30-5:30 (SOE Students). IEEE
Tuesdays (5pm?), ACM? 4G Cell Phone Technology, E2-180, May 7, 7:00PM, includes
pizza at 6pm. RSVP to serio@ee.com http://ee.com/4g/. Undergraduate Research Poster
Symposium, June 4, 2:00-4:00 PM, E2 Courtyard. See soe.ucsc.edu for more events.

Briefly write about the event or meeting you attended. Would you attend again? Was it
about interesting things? How could the meeting or event be improved?

2. How did your midterms go? Briefly write about each one.

3. What was your Scribbler project? How did it work? What problems did you run into?
How would you improve the scribbler?

4. There were not enough Scribblers for everyone, so these labs were in teams. Real life is
in teams too. How did your team function? Are there things one, the other, or both of
you could do to make it work even better?

5. The scribbler is a type of autonomous system – a system that (once programmed) runs on
its own and does what you told it to do. If you were creating a new company or starting a
new project, what sort of autonomous system would you like to have, spec, design, or
build?

6. What is the computer game rogue and what is the local connection in its history?

7. Design group project. This week, we will have assigned senior design groups to be
interviewed. For this assignment, you should state who is in your team, and when and
where the interview will take place. While the interview should be done in a group, each
of you will independently write up your own report (due in 3 weeks). The Winter 2009
CMPE123A site includes pictures and CVs of the students. Engineering is all about
designing under constraint. What constraints have the team that you are working with
run up against? Engineering is also about working in teams. How has the group
organized itself, and how do they deal with ensuring good interfaces between the
different parts of the project? In the final write-up, be sure to include
   a. Background on the project. What are their goals?
   b. Background on the team members. What skills does each team member bring to
      the project?
   c. Discussion of the primary constraints.
   d. Discussion of what approach the team plans to take.
   e. Discussion about the organization of the team, and if it sounds like they have
      formed a cohesive group.
   f. Would you like to build something like this? Why or why not.