Background Survey
ME 327: Design and Control of Haptic Systems
Stanford University • Autumn 2015

Personal Information

Last name: ___________________________ First name: ___________________________

Preferred name/nickname: ______________________________________________________

Highest degree held: __________ Field/Year of that degree: ________________________

Current department and degree currently sought: ________________________________

Why are you interested in this course?

What other lab- or project-based courses are you considering taking this quarter?

Experience

1. What programming languages and operating systems are you proficient in?

2. How familiar are you with programming real robots? __________
   [rate from 0 to 5: 0 = never touched a robot, 5 = this is what I live for]

3. Have you ever used an Arduino or data acquisition board (e.g. analog-to-digital converter or digital I/O) to make a computer communicate with the outside world? Describe very briefly (< 20 words).
4. Describe briefly the most complicated things you have made or fixed. (Examples: rebuilt automobile engine, sewed a tailored jacket, made a lego robot, made an ME210 robot.)

5. What is your level of skill in using the following tools?
   [rate from 0 to 5: 0 = never touched one, 5 = highly skilled]
   - lathe or milling machine
   - soldering iron
   - band saw
   - hot-melt glue gun
   - laser cutter
   - drill press
   - 3D printer

6. Have you ever read a research paper (from the proceedings of a conference or a scholarly journal)?
   - I’m not sure
   - Never
   - A few times
   - Many times

7. Have you ever performed engineering research before?
   - I’m not sure
   - Never
   - A few times
   - Many times

   If yes, please briefly name your main projects and when/where they were done:
8. Please check which classes/equivalents you have taken previously, or are taking now (this quarter)

- ME 161: Dynamic Systems
- EE 102: Signal Processing and Linear Systems
- ENGR 105: Feedback Control Design
- EE 263: Introduction to Linear Dynamical Systems
- ME 210: Introduction to Mechatronics
- ME 218 A and/or B, C: Smart Product Design
- CS 223A/ME 320: Introduction to Robotics (theory class)
- CS 225A: Experimental Robotics (experimental/robot programming class)
- CS 227: Experimental Haptics (haptic rendering class)
- A different haptics course: _______________________________
- A Matlab course, or significant Matlab experience within another course
- A C or C++ programming course, or significant C/C++ experience within another course

Are there any other potentially useful classes you have taken that I should know about?

9. Do you have any previous experience with haptics engineering/research? If so, please tell me briefly about it: