Background Survey  
ME 328: Medical Robotics  
Stanford University • Winter 2019

Personal Information

Last Name: ___________________________  First Name: ___________________________

Preferred Name/Nickname:_____________________________________________________

Highest Degree held and field of that degree:_____________________________________

Current department and degree currently sought:___________________________________

Why are you interested in this course?

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 a 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 __________  other: __________  __________

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 where they were done:
8. Please check which classes (or their equivalent) that you have taken previously

- ME 161/261: Dynamic Systems
- EE 102: Signal Processing and Linear Systems
- ENGR 105: Feedback Control Design
- EE 263: Introduction to Linear Dynamical Systems
- CS 223A/ME 320: Introduction to Robotics (theory class)
- CS 225A: Experimental Robotics (experimental/robot programming class)
- ME 218 A and/or B, C: Smart Product Design
- ME 210: Introduction to Mechatronics
- A medical device design 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 experience with medical robotics? If so, please tell me about it: