

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: