

EECS192 Mechatronic Design Laboratory- Spring 2021 (1/29/2021)

Instructor: Prof. R. Fearing.

Office Hours by zoom <https://berkeley.zoom.us/j/3373450251>

Wed 3-400 pm, Thu 2-300pm

Please email for an appointment at another time (ronf@eecs.berkeley.edu).

TA: Andrew Barkan (andrew_barkan@berkeley.edu).

Office Hours by zoom: Mon 2-3, Tues 2-3. (Please see Piazza for zoom link).

Class meeting: Tue 5-630 pm by zoom (see Piazza for zoom link).

Lab lecture/discussion: Wed 10-11 or Wed 11-12, ((see Piazza for zoom link).

Checkoffs Friday 5-6 pm. At least one team member must be present (on zoom) to demonstrate functionality. (It is recommended to have Zoom on your phone to show functionality, as WiFi link in laptop may be connected to car.)

Any checkpoint item which is missed, can be shown in the next week's checkpoint for 1/2 credit.

Grading: 15% checkoffs, 20% final exam, 18% oral and written reports, 9% written assignments, 10% first round contest, 20% second round contest, 3% community points (Piazza, peer review, lab helpfulness), 5% in class 10 minute quizzes.

Recommended Texts: *Mechatronics: mechanical system interfacing* by D.M. Auslander; *Analytical robotics and mechatronics* by W. Stadler; *Robotic engineering: an integrated approach* by R.D. Klafter; *The Art of Electronics* by Horowitz and Hill;

Suggested reference: *Introduction to Mechatronic Design* by J.E. Carryer, R.M. Ohlnie, and T.W. Kenny.

Please check the class web page: www-inst.eecs.berkeley.edu/~ee192 for class handouts and pointers to data sheets, etc. Also, announcements and discussion will be on piazza.

Schedule: see class web page.

Important Dates:

- ??? CalDay Saturday, April 24, 2021 ???
- EE192 Round 1 tentatively Mon or Tues April 12 or 13
- EE192 Round 2 tentatively Mon or Tues April 26 or 27
- Final Exam Fri, May 14, 11:30A - 2:30P

Berkeley honor code: Everyone in this class is expected to adhere to this code: "As a member of the UC Berkeley community, I act with honesty, integrity, and respect for others."

Support during Remote Learning:

We understand that your specific situation may present challenges to class participation. Please contact the instructors if you would like to discuss these and co-develop strategies for engaging with the course.

The Student Technology Equity Program (STEP) is available to help access a laptop, Wi-Fi hotspot, and other peripherals (<https://technology.berkeley.edu/STEP>).

You will be alerted as to when synchronous sessions are about to be recorded. If you prefer not to be recorded, you may turn your video and microphone off.

Please set your Zoom name to be the name you would like the instructors to call you. You may optionally include your personal pronouns.

Please set your Zoom picture to an appropriate profile picture of you to foster a sense of community and enhance interactions. If you are not comfortable using an image of yourself, you may use an appropriate picture of an avatar.

We encourage participating with your video on to foster a sense of community and enhance interactions. However, we understand that some students are not comfortable with video or may not be able to participate by video.

Counseling and Psychological Services

University Health Services Counseling and Psychological Services staff are available to you at the Tang Center (<http://uhs.berkeley.edu>; 2222 Bancroft Way; 510-642-9494) and in the College of Engineering (<https://engineering.berkeley.edu/students/advising-counseling/counseling/>; 241 Bechtel Engineering Center), and provide confidential assistance to students managing problems that can emerge from illness such as financial, academic, legal, family concerns, and more. Long wait times at the Tang Center in the past led to a significant expansion to include a 24/7 counseling line at (855) 817-5667. This line will connect you with help in a very short time-frame. Short-term help is also available from the Alameda County Crisis hotline: 800-309-2131. If you or someone you know is experiencing an emergency that puts their health at risk, please call 911.