

Course: ECE 454

- Instructor: Igor Paprotny, paprotny@uic.edu
- Lecture delivery method: online synchronous, the lectures will be conducted live via Blackboard. Recordings of lectures and slides will also be posted on blackboard.
- Laboratory delivery method: ON CAMPUS
- How the lab will be run:
  - There will be 8 lab sessions, starting in week 3 of the semester with a frequency of a lab every 1 week.
  - Student groups: Students will work in groups on a single project encompassing the construction of the autonomous racing model car.
  - Students will work on labs partially online and at home using the FRDM-KL25Z microcontroller platform available from the bookstore (\$15.30), and use hardware in on-campus labs to complete the laboratory assignments.
  - On-campus lab portion: The students will conduct on-campus portion of the lab to use hardware necessary to complete the lab. Groups will be subdivided, and students rotate to observe facility occupancy limitations and social distancing. Students that are present in lab during a lab session will brief the students that are not present and produce a joint lab report which will be turned in the following week.
  - Blended on-campus/online competitions: Two competitions will be conducted as a part this class using the autonomous model race car hardware developed by each group. The competitions will be conducted sequentially, where a representative from each group will operate the car, while the timing and the performance will be streamed live online.
  - Interactions with TAs or Instructor: TAs will be available online for questions during their scheduled online lab time. The TA and/or the instructor will be available during in-person lab time.