



Engineering + Innovation Camps @ CU Denver

Robotics Design + Challenge Design + Challenge

FAQs

What is Robotics Design + Challenge Camp?

Robotics Design + Camp is a 5-day summer camp offered by the College of Engineering, Design and Computing that introduces participants to Robotics Design + Challenge Camp through building a car-like robot and testing its performance in a variety of challenges. Students will take home their robot at week's end.

Where is Robotics Design + Challenge Camp?

All aspects of the Robotics Design + Challenge Camp will take place at the CU Denver Auraria Campus, primarily in the North Classroom building, located at 1200 Larimer Street, Denver, CO 80204.

How can I register for Robotics Design + Challenge Camp?

Robotics Design + Challenge Camp registration information can be found on the College of Engineering, Design and Computing Summer Camps website (engineering.ucdenver.edu/summercamps). Registration opens in February and remains open until June 1, or when the camp is at capacity, whichever comes first. Registration and payment is all done electronically and is linked from the website.

What can I expect for the five days of Robotics Design + Challenge Camp?

Robotics Design + Challenge Camp students will create car-like robots that perform autonomous tasks. Students begin by learning the basic programming and electronic circuit concepts needed to interact with a robot's sensors and actuators. They then spend the week learning each sensor's capabilities, building a car-like robot, and testing its performance in a variety of challenges. Students will take home their robot at week's end. [Here is a sample itinerary.](#)

What is the profile of students who would enjoy Robotics Design + Challenge Camp?

Robotics Design + Challenge Camp is a program designed to expose high schoolers to robotics, electronics and programming. Students do not need to have any previous robotics, electronics, or programming experience. A good candidate for Robotics Design + Challenge Camp is a student who is interested in robotics, computers, or technology in general. Participants don't have to want to be engineers – as long as a student shows up eager to learn, experience new things, and have fun, they are a great Robotics Design + Challenge Camp candidate.

What is the average age/intended audience of Robotics Design + Challenge Campers?

Robotics Design + Challenge Camp is designed for all high school students, including students who have completed 8th grade by the start of the camp.



What skills will students gain by attending Robotics Design + Challenge Camp?

Students will learn to program in Arduino C++ and Python, construct simple electronic circuit, perform signal processing and data visualization, and conduct physical computing.

What is the cost of Robotics Design + Challenge Camp?

Robotics Design + Challenge Camp registration is \$600. A \$300 deposit is required to secure a spot in camp, and the remainder of the camp cost is due by June 1.

Are there scholarships available?

Yes, there are a limited number of need-based scholarships available. Scholarship applicants must:

- write an essay on why they believe they should receive a scholarship for CAD + 3D Printing Camp
- have a teacher/counselor write a recommendation letter on their behalf and submit directly from the recommender to the College of Engineering, Design and Computing via email (engineeringcamps@ucdenver.edu). All letters must be submitted directly from the recommender; any letters sent in by a student or parent/guardian will be disregarded. The scholarship deadline is May 1, and all applicants will hear back no later than May 8.

Is lunch provided?

No, all students will eat lunch at the Tivoli Student Union; available food options are listed [here](#). Students may also bring their lunch. We will provide snacks throughout the day and will strive to have options for everyone. However, we may not be able to accommodate a student with severe food allergies. Students are also welcome to bring their own snacks.

NOTE: Students with peanut allergies are required to carry an EpiPen with them at all times.

What should I wear?

Please plan to wear close-toed comfortable walking shoes every day of camp.

What do I need to bring?

All activity materials will be provided including computers, software, hardware, and prototyping supplies. Please bring a notebook and writing utensil for notes and activities. Water and beverages will not be allowed inside computer laboratories, but will be allowed in the hallway so feel free to bring a water bottle.

Do I have to attend every day?

Yes - though camp staff understand there are sometimes extenuating circumstances. We group students to work on a design project throughout camp, so it can be detrimental for the teams if students do not show up each day.

All camp scholarship recipients must be able to attend all of camp as a condition of the award. More information on scholarships can be found on the Robotics Design + Challenge Camp website.

What if I realize last-minute I am unable to attend?



The deadline to cancel is May 1 in order to receive a refund. And cancellations after this point will not receive a refund.

Is transportation or lodging provided?

No. You are responsible for your own transportation and lodging. Pick-up and drop-off each day will be at the North Classroom building.

Is there parking available?

Yes. The Robotics Design + Challenge Camp will be held in the North Classroom building, located near the Tivoli parking garage, with visitor parking available. There are several other lots on the Auraria campus for visitors as well – see parking map [here](#). However, it is important to note that there is no free parking on campus.

What public transportation is available near the CU Denver Downtown Campus?

There are two RTD Light Rail stops on the Auraria campus within approximately ½ mile of the CU Denver North Classroom building where we will hold the Robotics Design + Challenge Camp. The Auraria West Station stop is serviced by the RTD Light Rail “E”, “C” and “W” line. The Colfax at Auraria Station stop is serviced by the RTD Light Rail “H”, “F” and “D” lines. Walking is safe and easy, with a sidewalks leading from the RTD stations up to the North Classroom building. Other options to get to campus are ride sharing services (Lyft and Uber), and cabs.

I can't commute from home each day. Where should I stay?

Our recommended hotel is the [Springhill Suites Denver](#) Downtown.

Still have questions? Contact the College of Engineering, Design and Computing at engineeringcamps@ucdenver.edu or 303-315-7170.