

# Goshen College 2021 Electronics & Robotics Show

Science Hall ground floor rooms  
Monday Dec 6 2-4 pm

Students in the Electronics class taught by Professor John Buschert spend the last month of the class on a project. Each project uses the popular Arduino microcontroller board that is programmed in C, can be connected to a variety of sensors, and can control motors, lights, sounds and other outputs.

This year we have food and drink provided by two of the projects

Here are the projects

- **Mask ADOORner** As you approach a doorway, this device checks to see if you are wearing a mask. If not, it places a mask in front of you at the height of your face. By Sam Stolpe and Asa Schiller
- **Obstacle Car** A car zooms around avoiding obstacles. By Natalia Gamez Trillo, Drew Hackman, and Peyton Smith
- **Condimenter** A robot arm will apply mustard or ketchup to your hotdog in the pattern of your choice. by Drew Smoker and Lukas Bontrager-Waite
- **Balloon Pop-o-matic** A robot moves around searching for balloons and then pops them by several different methods. By Trevor Stutzman, Samuel Stoner-Eby and Joel Yoder
- **Drink Mixer** A robot arm will locate a cup with liquid and pour it into another cup. By Jose Cepeda, Deya Rodriguez, and Bryan Nataren Barahona
- **Gesture Controlled Crab Car** Wearing a glove, you control a car by tilting your hand. The car has a claw and special mecanum wheels that allow it to move in any direction. By Leandro Morillo Rojas and Daniel Lara Cruz

from a past show:

