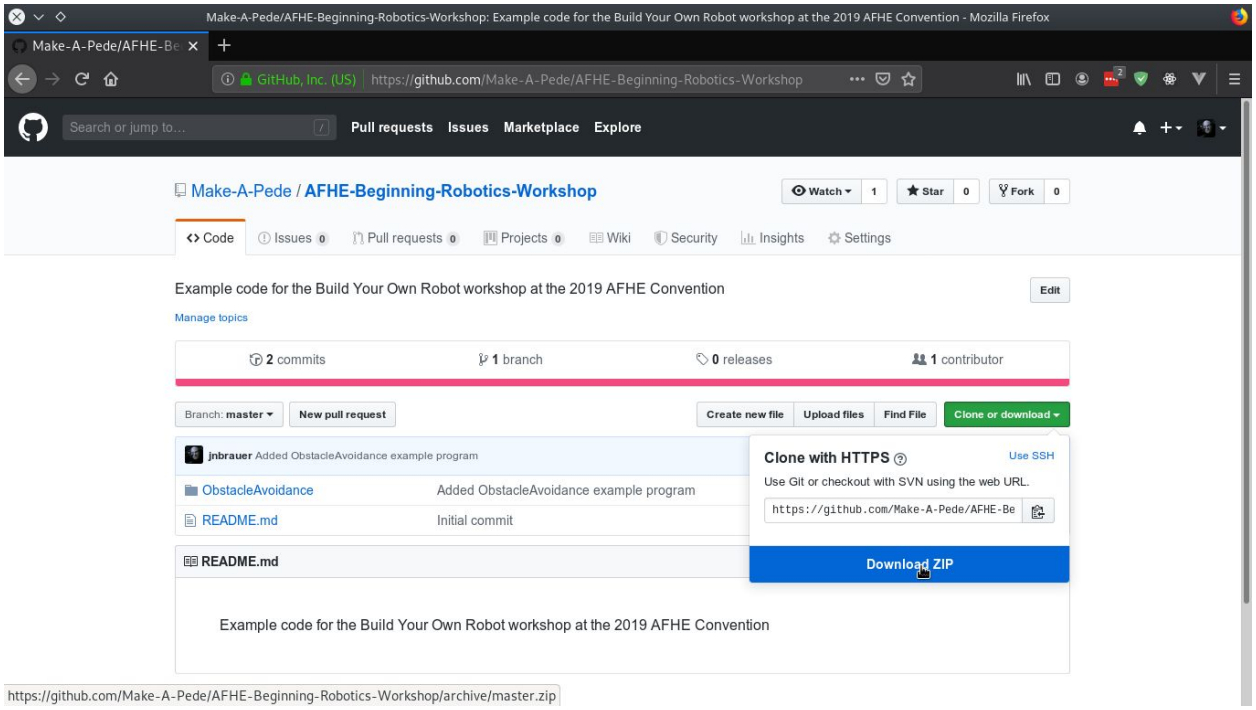
Loading Your First Program

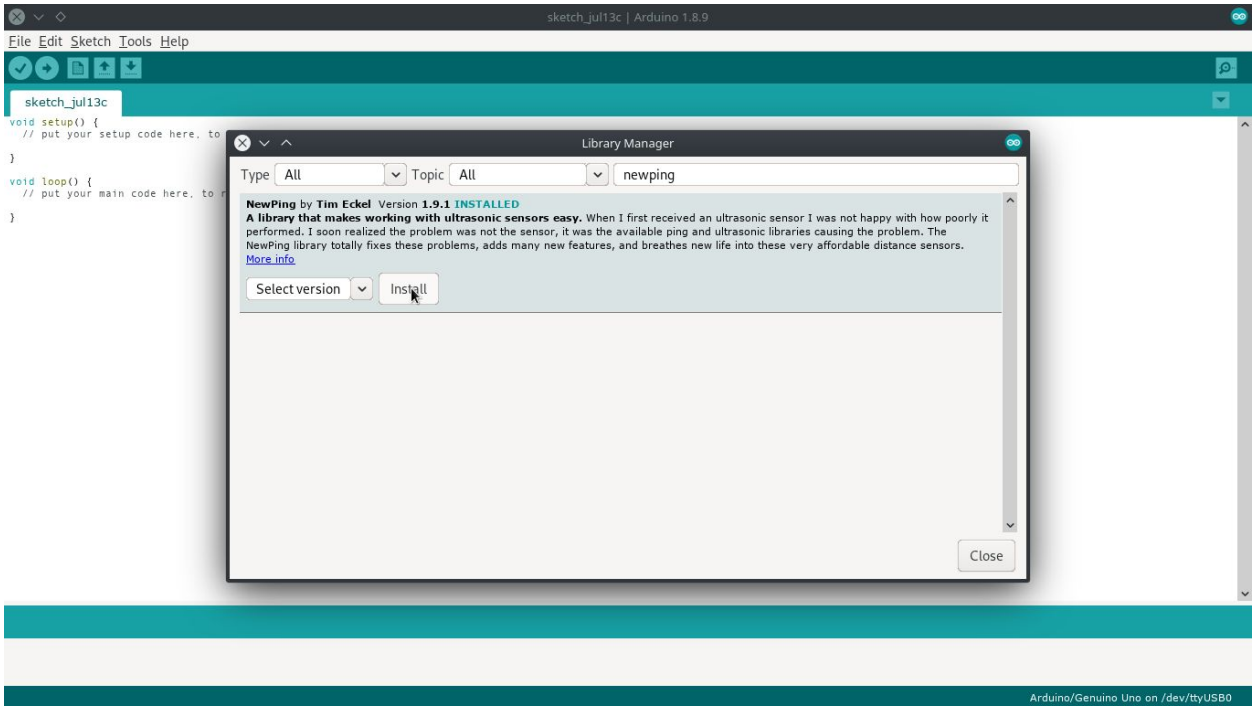
Step 1: Download the example program from the Github repository (https://github.com/Make-A-Pede/AFHE-Beginning-Robotics-Workshop) by clicking Clone or Download → Download ZIP. Extract the downloaded .zip file.



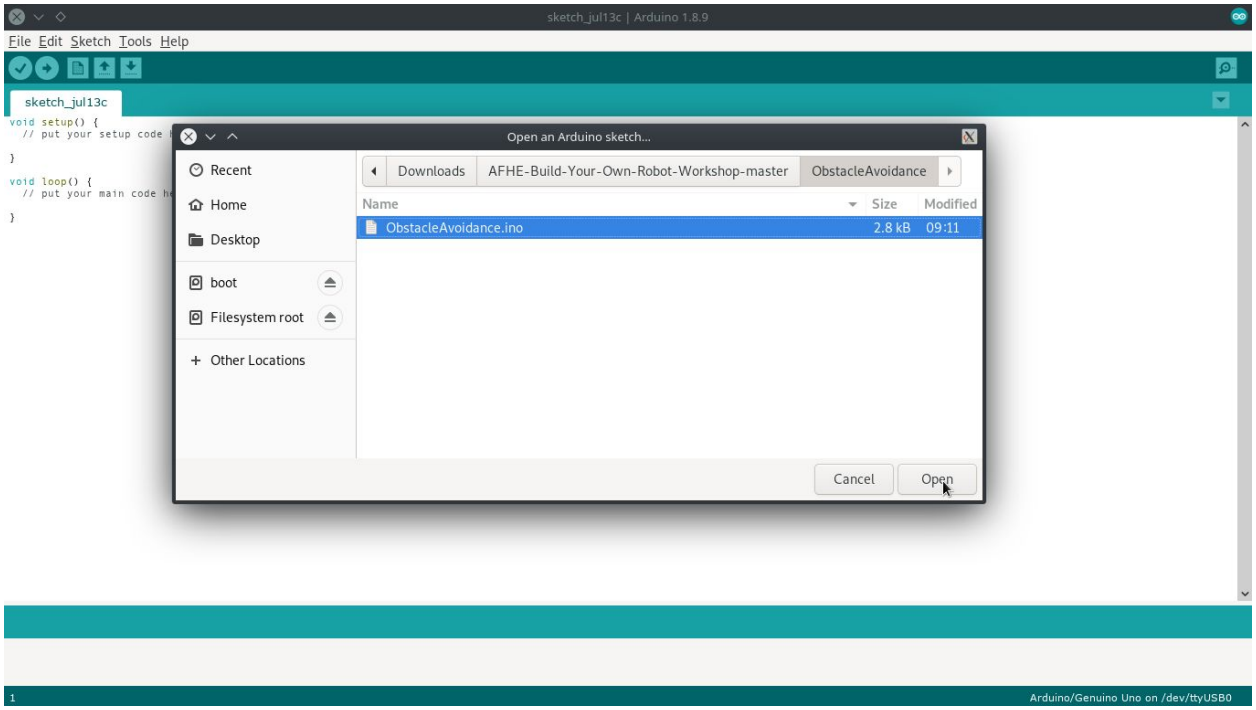
Step 2: Install and open the Arduino IDE.

Arduino IDE Installation Instructions:
https://www.arduino.cc/en/Guide/Windows
https://www.arduino.cc/en/Guide/MacOSX

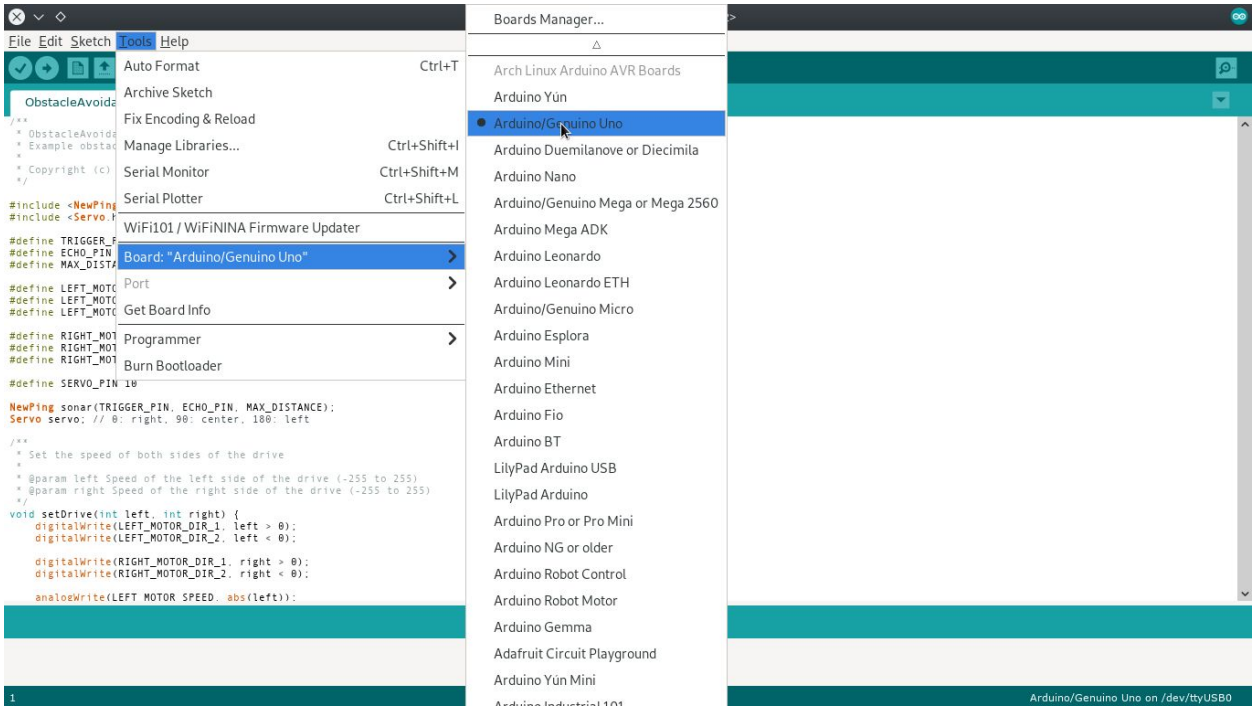
Step 3: Install the NewPing and Servo libraries. To do this, click Sketch → Include Library → Manage Libraries… and search for and install the NewPing and Servo libraries.



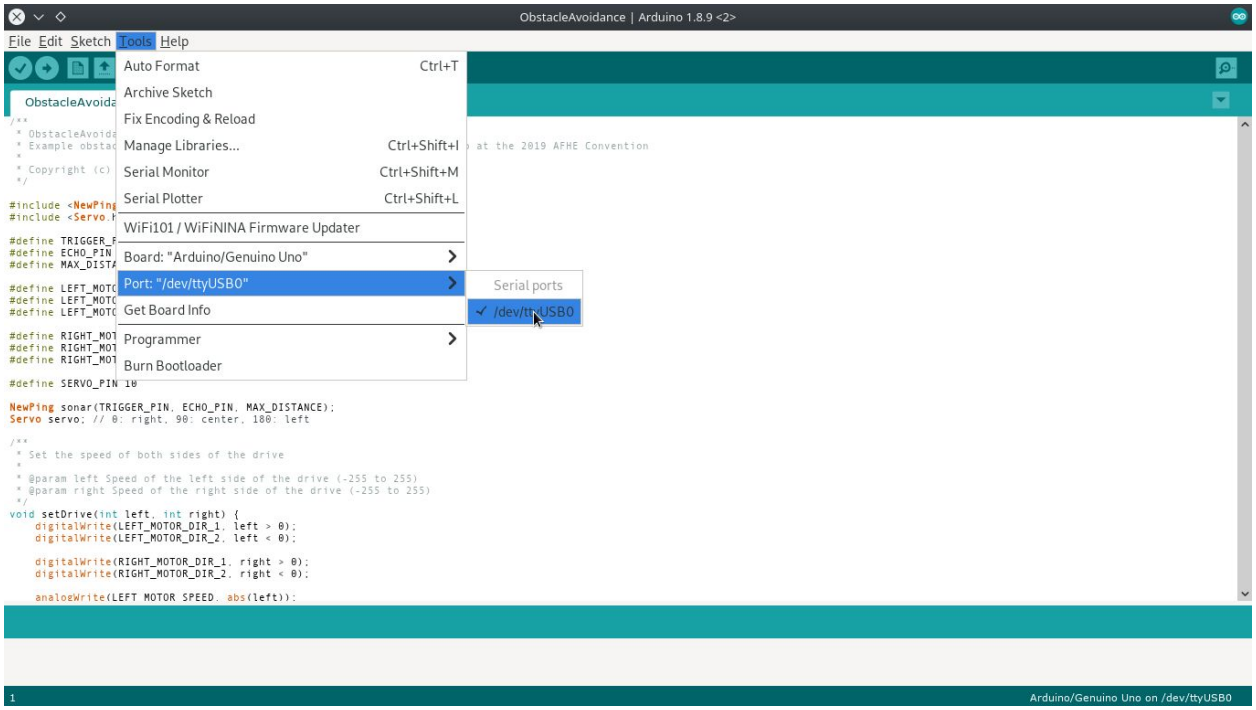
Step 4: Open the example program downloaded in Step 1 by clicked File → Open… and selecting the ObstacleAvoidance.ino file contained in the ObstacleAvoidance folder inside the folder the .zip file downloaded in the first step was extracted into.



Step 5: Select “Arduino/Genuino Uno” from the Tools → Board menu.



Step 6: Connect the robot to your computer using the download cable provided and select the port the robot is connected to in the Tools → Port menu.



Step 7: Upload the program to your robot.