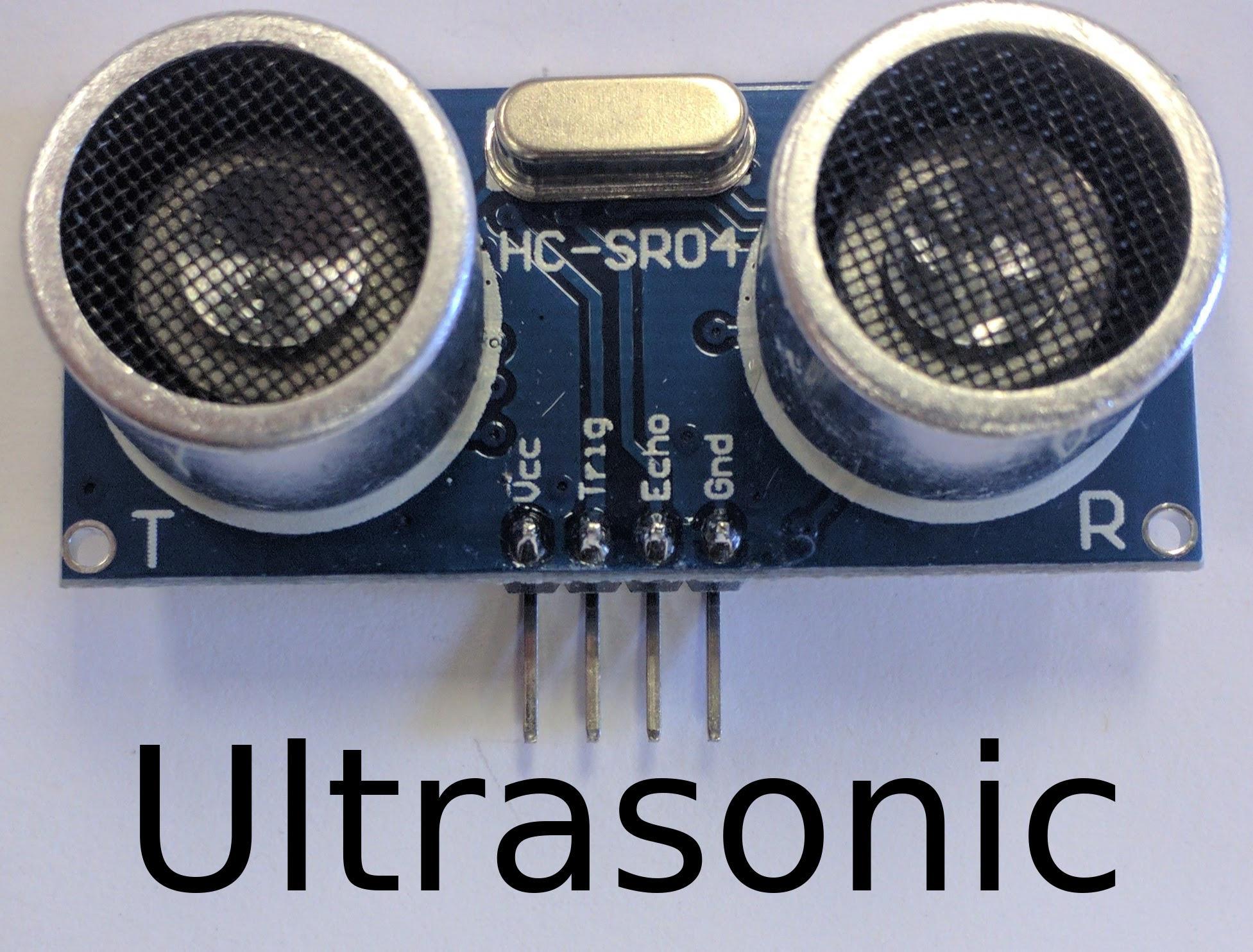
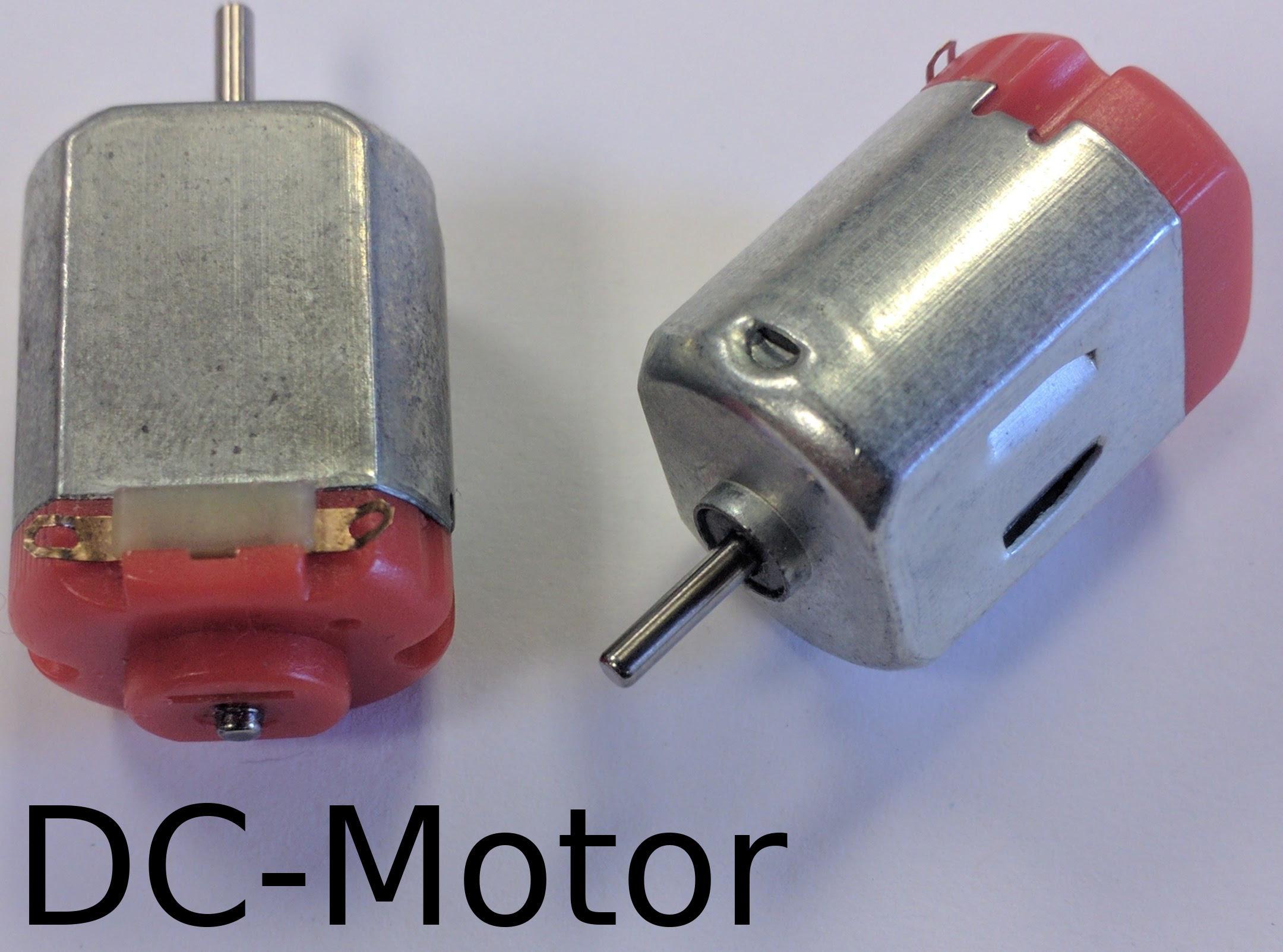
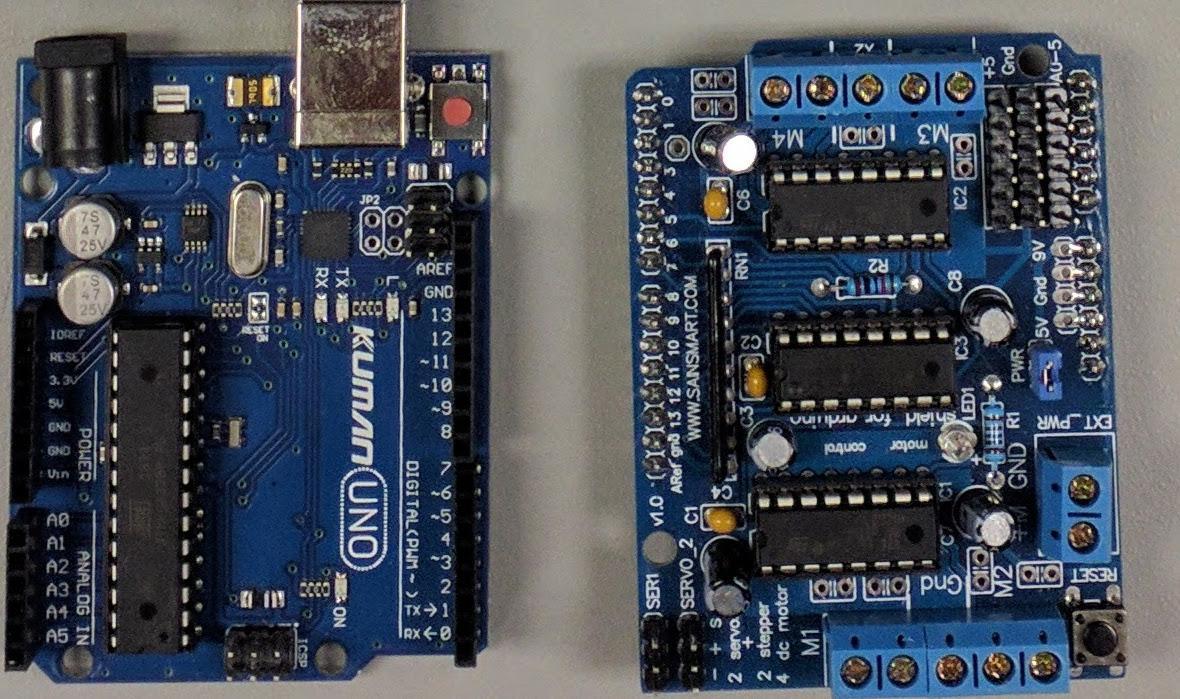
**iCREAT I: Modules 11-15 - MicroMouse Integration**

# 



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# Objectives

* Use the Arduino motor shield.
* Implement basic strategies for collision avoidance in the project.
* Use the Servo Motor with the Motor Shield Library.
* Use the Ultrasonic Distance Sensor with the Motor Shield Library.
* Integrate LEDs, buzzers and LDRs into projects.
* Create STL files and 3D Print.
* Assemble, test and present your project.

# Activities

* Implementing collision avoidance strategies, sensors, components.
* Building and documenting your project.

# TABLE of CONTENT: Modules 11-15

|  |  |  |
| --- | --- | --- |
|  | **Topic** | **Activities** |
| **Modules 11-15** | | |
|  | **Putting it all together** | **TERM PROJECT:**  Complete the cart.  Be sure to follow Project Assignment Specification |
| **1** | **Homework** | HOMEWORK:  Use the **iCREAT I - Final Presentation Template** to document your final project.  Be sure to review a list of items required for the binder |
| **2** | **Homework** | HOMEWORK:  Be sure to follow **iCREAT I - Final iCREAT Project Assignment Specification** Document to ensure that all the components are in place.  As a team, submit your final project code Assignment.  Ensure that all code is properly commented. |
|  |  | **Present your work** |