**ENGR 4580 Sensor Identification Worksheet**

**Team Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

This worksheet is to help identify what types of sensors and how many of each your project needs. Choose the sensors based on what functions your system does, how it interacts with its environment, and what data must be shown to the user. Information about different types of sensors is available on D2L (Content > Design > Sensors) and on the YouTube [Sensors](https://www.youtube.com/playlist?list=PLI_ZVs3jy156hCJU3iA35Be_UgliUjVs7) playlist, and through basic internet searching.

**Sensors Needed:** list each type of sensor your system will use, along with its location, purpose, and quantity. Delete the examples below and add more rows as needed.

|  |  |  |
| --- | --- | --- |
| **Sensor** | **Qty** | **Location and Purpose** |
| Ultrasonic | 4 | One on each side of vehicle to detect obstacles |
| Encoder | 2 | One on each drive wheel to measure speed |
| Accelerometer | 1 | On shooter to measure launch angle |
|  |  |  |
|  |  |  |

**Supporting evidence:** you may provide this in table or list format, however is easiest based on your research. Examples include names of components, approximate cost, urls, etc.