**CS 4758/6758 [pick one]: Title of your awesome project**

Student Name 1, Department/major, year, email

Student Name 2, Department/major, year, email

**Keywords:** 2-3 keywords, e.g., control, vision, sensor fusion.

**Robot:** Please specify the robot you would be working with.

**Details:**

1. *Project description*: It should contain the goal of the project, techniques/algorithms you think you’d be using. Try to clearly define the goal, e.g. instead of just saying: “I will make my car to drive autonomously”, describe in detail the setting, e.g., “I will consider indoor environments with obstacles of XXXX types; using YYY sensor and ZZZZ algorithms I will develop a method for the robot to do WWWW”. If you think there is some novelty in the idea/design/algorithm, please specify. It is hard to specify everything in advance, but please make intelligent guesses.

List at least one reference (i.e., one existing project or paper), closely related to your project, and describe it in 1-2 lines and mention how your method would be different. (This is required for CS 6780 students.)

1. *Hardware and logistic details*: Please briefly describe the robot, and make sure that you already have or will be obtain the necessary parts, etc. Specify, if you would be doing additional work here.
2. *Evaluation:* Please specify how you are going to evaluate the algorithm. E.g., if it involves learning, then which dataset would you test it on? If it involves planning, specify the conditions and setting where you’d evaluate it. Also specify the hardness of the evaluation task, i.e., “Driving a robot to avoid known objects of known color” carries different value than “Driving a robot to avoid all objects commonly found in office environments.” In another example, testing on a robot 100 times is different than testing 2 times.

*Optional*: You can optionally include more references to prior work, pictures, etc.

*Required*: Please specify if parts of this project are part of another project taken for “credit”. It is completely fine to have your CS 4758/6758 project as a project you are already working on. However, if you are taking grades (independent study or another course), then you must clearly specify what parts would be counted for which project and what parts would be common.

*Note*: Your project summary should fit in one page only, but if you really want to describe more, then you can provide a URL in the reference.