Student Name: _____ Section #:_____

Introduction:

Create an embedded tennis ball tracker that will detect blue and green tennis balls within an image. Your module:

- shall be able to load in various images via a file menu

- shall be able to select whether to detect a green or blue tennis ball

- shall be able to save and load various parameters used for tennis ball detection from a configuration file

- shall display the X and Y values of the centroid of the detected tennis ball

Tech Memo:

Create a tech memo describing the hierarchy and organization of your code base. Include block diagrams, flow charts, screen shots, background information, and anything else that would be helpful for someone receiving your code base.

Due Date:

You will have roughly 7 days to work on each lab. Labs are due at midnight either on Mon or Wed one week after your scheduled lab time. You are expected to put in 2-4 hours of work outside of scheduled lab time as there are no other homework assignments, quizzes, or tests during the first 6 labs.

Lab Submission:

1. Submission Link
   https://my.pcloud.com/#page=puplink&code=Pr87ZODG1l7tIQiLTnqiHRJAGphcwUTuV

2. Submit a single zip file with all code, tech memo, and demonstration video showing basic functionality

3. Sample folder structure

   a. src

   b. doc

   c. vid

Grading:

Labs will be graded against the below rubric. Late labs will get a 0.

Grade	Description
0	Lab handed in late, or not handed in
1	Poor quality or no demonstration video
2	Average quality
3	High quality