ECE564/565, Fall 2019, Fundamentals of Autonomous Robots/Lab.

HW#1
Due on: Thursday, September 5th, in class.

Problem 1: (15 Points)
Name the three robotic paradigms, and draw the relationship between the primitives.

Problem 2: (10 Points)
List three problems with teleoperation.

Problem 3: (15 Points)
Describe the difference between telepresence and semi-autonomous control.

Problem 4: (15 Points)
List the six characteristics of applications that are well suited for teleoperation.

Problem 5: (15 Points)
List advantages and disadvantages of the Hierarchical Paradigm.

Problem 6: (15 Points)
Explain "shared control".

Problem 7: (15 Points)
What are the two improvements to a classic teleoperation?
And what do they (improvements) aim for?