Due Friday, December 2, 2016, in class

NO LATE ASSIGNMENTS ACCEPTED!

You must turn in reports and present only singly – but all graduate students will work collaboratively with each other and Dr. Bob.

As required by Ohio University, graduate students must complete extra work in a dual-listed course such as ME 4290/5290. A semester-long problem-based learning (PBL) assignment worth 4 mini-projects (80 points) must be completed. You must define your own project and have it approved by Dr. Bob. Undergraduate students do not need to complete this project.

For Fall 2016 only, each graduate student will choose a project relating to the Baxter Humanoid Robot (see photograph next page). In general, we need to apply each topic learned in class to this new robot. This will be done in MATLAB computations, RoboDK simulation, and in the lab hardware for all graduate student projects. In conjunction with Dr. Bob, we will lay the foundation for application of this robot in ME 4290/5290 into the future! For instance, we will jointly develop the DH parameters and all use the same.

Specific steps to complete

1. Define your project via a 1-page memo and APPROVE IT WITH DR.BOB BEFORE class on Friday September 9, 2016 (your project grade will be zero if your name is not on my paper by this deadline). Include detail including project idea, goals, specific work steps, and deliverables.

2. Keep Dr. Bob apprised of your progress weekly; this is your responsibility.

3. Present your interim project results orally to the class on Wednesday October 19, 2016. Also, submit interim written report on this day (keep the original for yourself, this will become the final report – give me a photocopy at this point). If you skip this interim written report, your maximum grade for the project will be 70%.

4. Present your project results orally to the class on Friday December 2, 2016 in class. This must be a professional presentation. The formal technical written report must also be submitted at this time.

Any questions, just ask!

Pace yourself to work every week. Report regularly to Dr. Bob.

Do not ask for an extension or an incomplete.
Baxter Humanoid Robot