# MEGR 2023 – DYNAMICS

## Project Assignment

Name: Julian Lee

model choice: Dynamics of Tennis

This semester, you are going to be required to produce a model to demonstrate a dynamic device. For your selection, you may choose a component from the videos demonstrating the Navy Mechanical Fire Control Computers (links below) or you may select an *approved* mechanism from one of the problems in your textbook.

Your model can take a variety of forms. It can be a physical model, made from cardboard, wood, foam core, dowels, 3D printing, Legos, etc., or it can be recreated using software (SolidWorks, for example) and animated on-screen. Unfortunately, there is no budget for this project. Maximum utilization of available resources is encouraged.

In addition to the model, you should prepare a brief explanation (1 page written OR 5 minutes max. video) showing how the device works and how dynamics can be applied to explain the motion of your model. Submit this coversheet with your project online.

Video links:

https://www.youtube.com/watch?v=lr1uK24SND8

https://www.youtube.com/watch?v=5GZa63x3k60

If you would like to create a model based on one of the textbook problems, chapters 13 and 16 both contain some interesting devices.