

ENGINEERING 6961

FLUID MECHANICS II

HOMEWORK #0

Write brief summaries of the following EFLUIDS videos: Waves in Fluids; Flow Instabilities; Low Reynolds Number Flows; Compressible Channel Flow; Turbulence; Flow Visualization. Each summary should be 1 page long and be presented in bullet form.

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LAB #0

Develop a FLOW-3D simulation of a GLIDER. Use SOLID WORKS to create the GLIDER geometry. Use solid elliptic cross section foils for the wings, rudder and elevator. Make the GLIDER a solid tube with a hemispherical nose cap and a conical rear cap.