Design and simulate your own motor
-Introduction to Computer Aided Engineering (CAE)
based on finite element method (FEM)-

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OUTLINE: Electric motors, which convert electrical energy into mechanical one, are used in various applications, such as electric trains, elevators, air-conditioners, refrigerators, cameras, cell phones, etc. Furthermore, the motors play a very important role recently in electric vehicles (EVs) and hybrid electric vehicles (HEVs). In this course, you will learn the process from design to analysis of the motor using 3D-CAD and FEM. Also, you will study the working principle of the motor and finally design an original motor based on your own idea.