Sample Student Project from 'Kinematics of Machinery: Spring 07'

Students in Kinematics completed a final project where they were to design exercise machines which were able to generate electricity. The machines could be leg presses or stair master machines depending on the student's choosing. The machines required the students to balance torque, electric motor frequency and acceleration and force vectors. This particular project (below) involved the use of a crank rocker mechanism with a real generator which can be purchased from a catalogue.

Sample Drawings:

Sample Calculations: