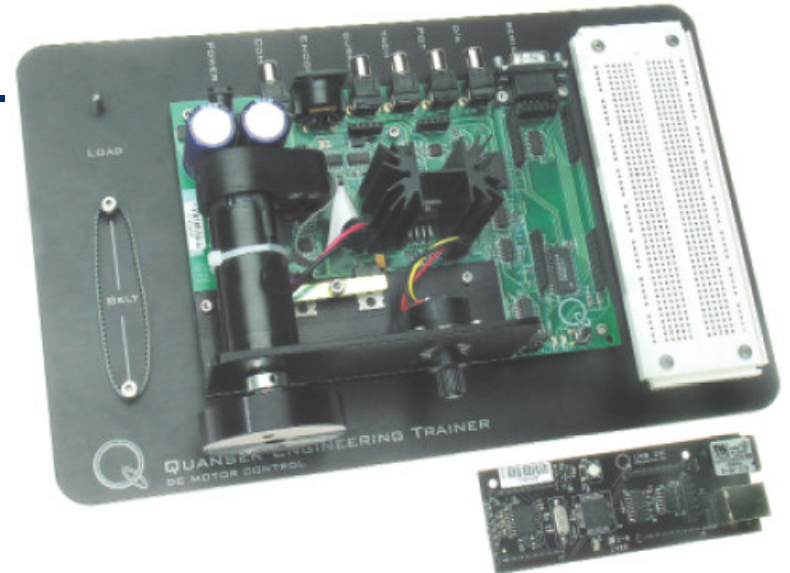


C4: Motor Control Experiment for MAE170 lab

- MAE170 laboratory mainly focuses on data acquisition.
- Control involves
 - Data acquisition
 - Computation
 - Excitationdone in real-time
- Motor control experiment has already been developed for such purpose (similar to Quanser QET DC motor experiment, see figure)
 - Motor position feedback
 - Motor velocity feedback
- Illustrative to demonstrate control concepts in 170 lab



C4: Motor Control Experiment for MAE170 lab

Project emphasis:

- Based on existing electronics and DC motor control experiment:
 - Develop rugged experimental setup to be used in 170 lab
 - Develop a LabView VI that allows you to do
 - Position control of motor
 - Velocity control of Motor
 - Test your algorithms
 - Write documentation that accompanies experiment

Help:

- Project: Mike Watson and Raymond de Callafon
- Course Advisor: Prof. de Callafon, callafon@ucsd.edu