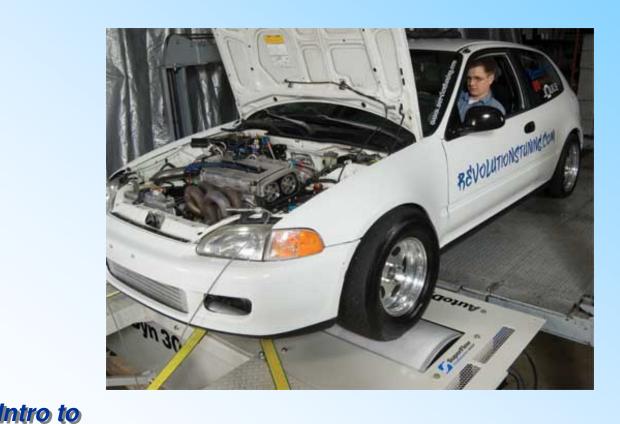
Dynamometers

 Measure the torque output of a motor at different speeds.



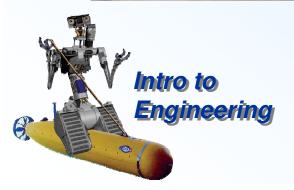
Engineering

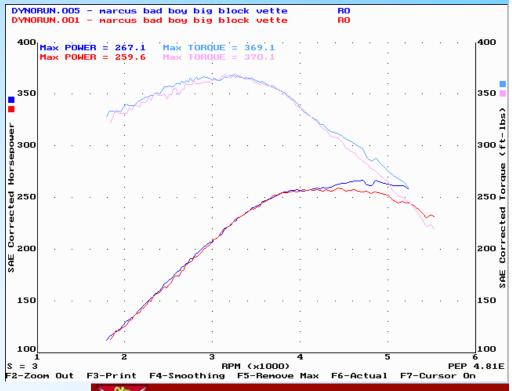


Results from Dynamometer

- Torque-Speed Curve
- Power-Speed Curve
 - (Power = Torque*Speed)









Your Task

- Design a dynamometer for your motor out of LEGOs?
 - Thought experiment: As you slow down the shaft, does the torque increase or decrease (remember when you held the shaft and felt heat?
- You will also measure the efficiency of the motor:
 - $-P_{in-electrical}^* \eta = P_{out-mechanical}$
 - How can you measure electrical power?

