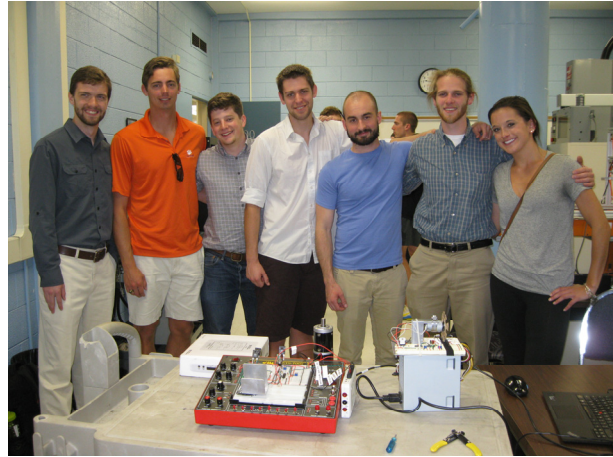


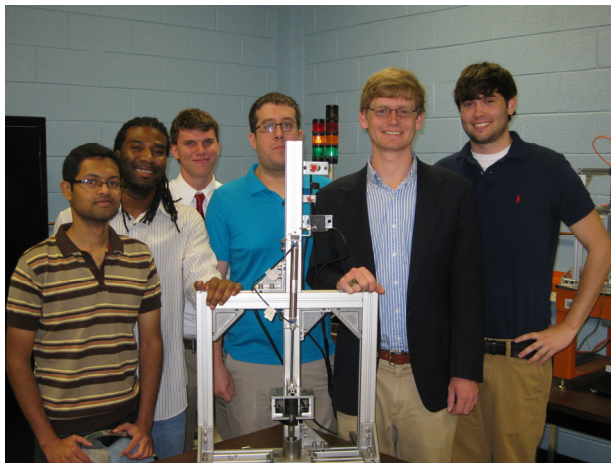
Mechatronic System Design – ME 4170/6170 (April 25, 2014)
Demonstration of Semester Long Projects in Cook Engineering Laboratory



Vertical axis Savonius wind turbine for energy studies and real time controllable lift studies (target: ME 4440 lab, ME H4150)



Operational and power amplifier electronic circuits for small and medium size DC motors (target: ME 4030, ME 8230 control courses)



Pneumatic cylinder actuation for manufacturing process with accompanying Solidworks computer animation



Beam bending and real time data acquisition using strain gages / load cells on car flags with wind tunnel demo (target: ME 3330 lab)



Assistance from Gwen Dockins, Corbin Kolehmainen, and Janeen Putman plus Ron Saleeby (LTA), and Gibran Ali (grader)