**Physics and Robotics (Deed’s Homework #1)**

1. **What is electric current?**

**What is the unit that represents electric current?**

**What is the device that is used to measure electric current?**

1. **What is voltage?**

**What is the unit that represents voltage?**

**What is the device that is used to measure voltage?**

1. **What is resistance?**

**What is the unit that represents resistance?**

1. **If you have an electric motor and increase the current that goes through the motor, will the motor spin faster, slower, or stay the same?**
2. **If you have a light bulb and increase the current that goes through the light bulb, will the light bulb get brighter, dimmer, or stay the same?**
3. **How is voltage and current related? What is the law that describes this relationship?**
4. **If you have a resistor, a battery, and a motor and you want to increase the rate of spin of the motor, what are two ways that you can accomplish this?**
5. **If you have a resistor, a battery, and a light bulb and you want to make the light bulb shine brighter, what are two ways that you can accomplish this?**
6. **What is a transducer? Given three examples of a transducer.**