

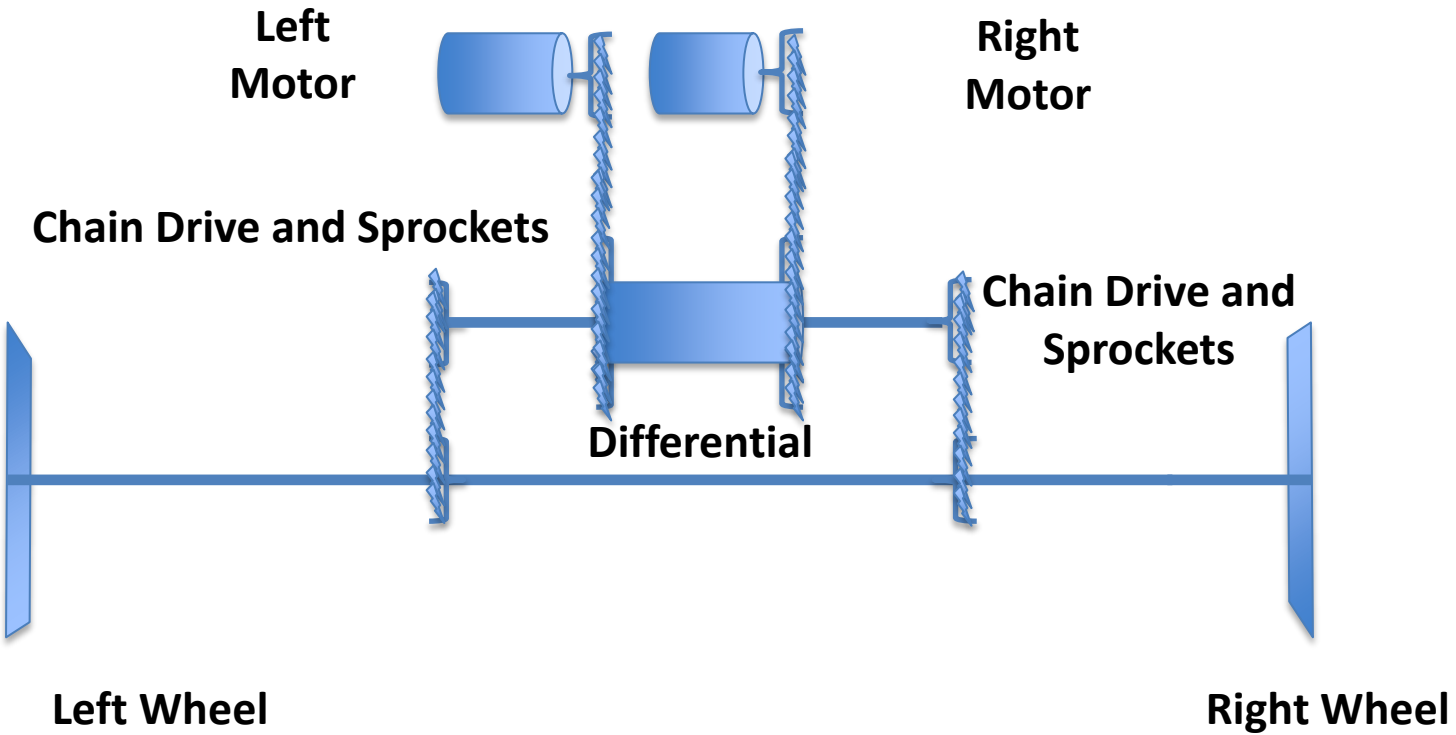
Addressing Climate Change through the Construction of a Sustainable Vehicle

Norland **Raphael Hagen**

Shell Eco-Marathon 2014

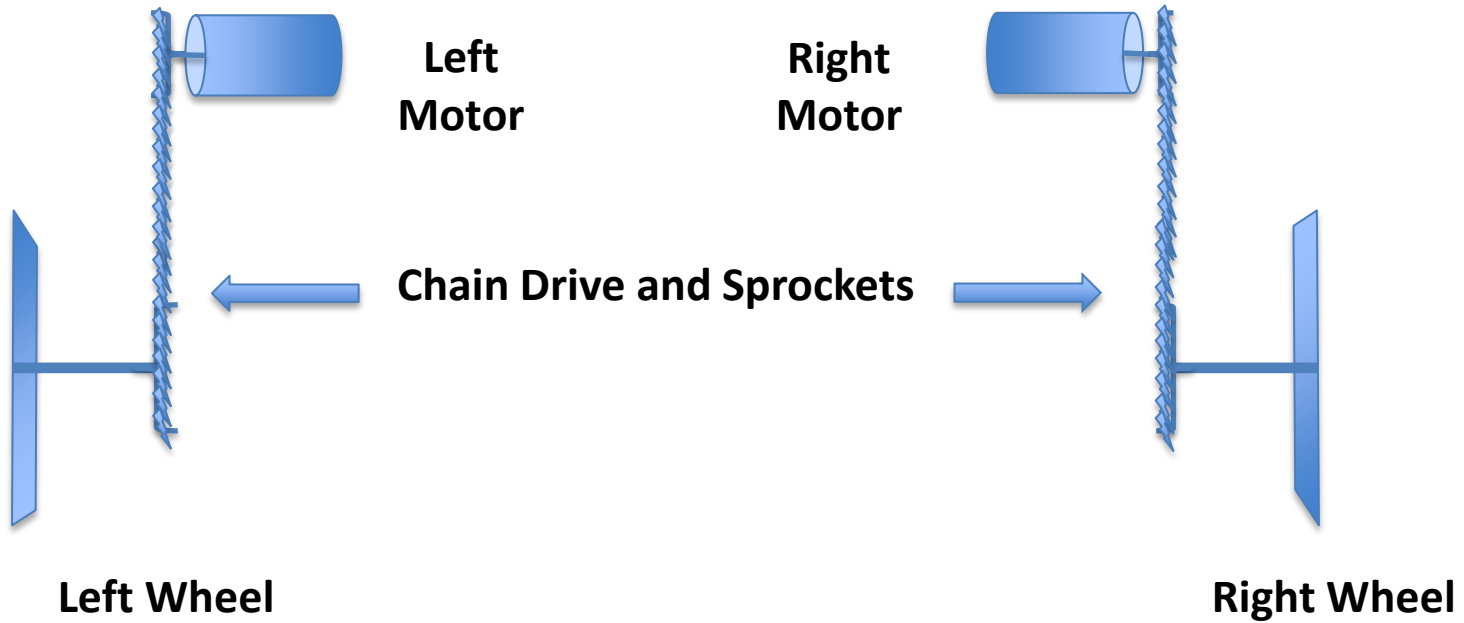


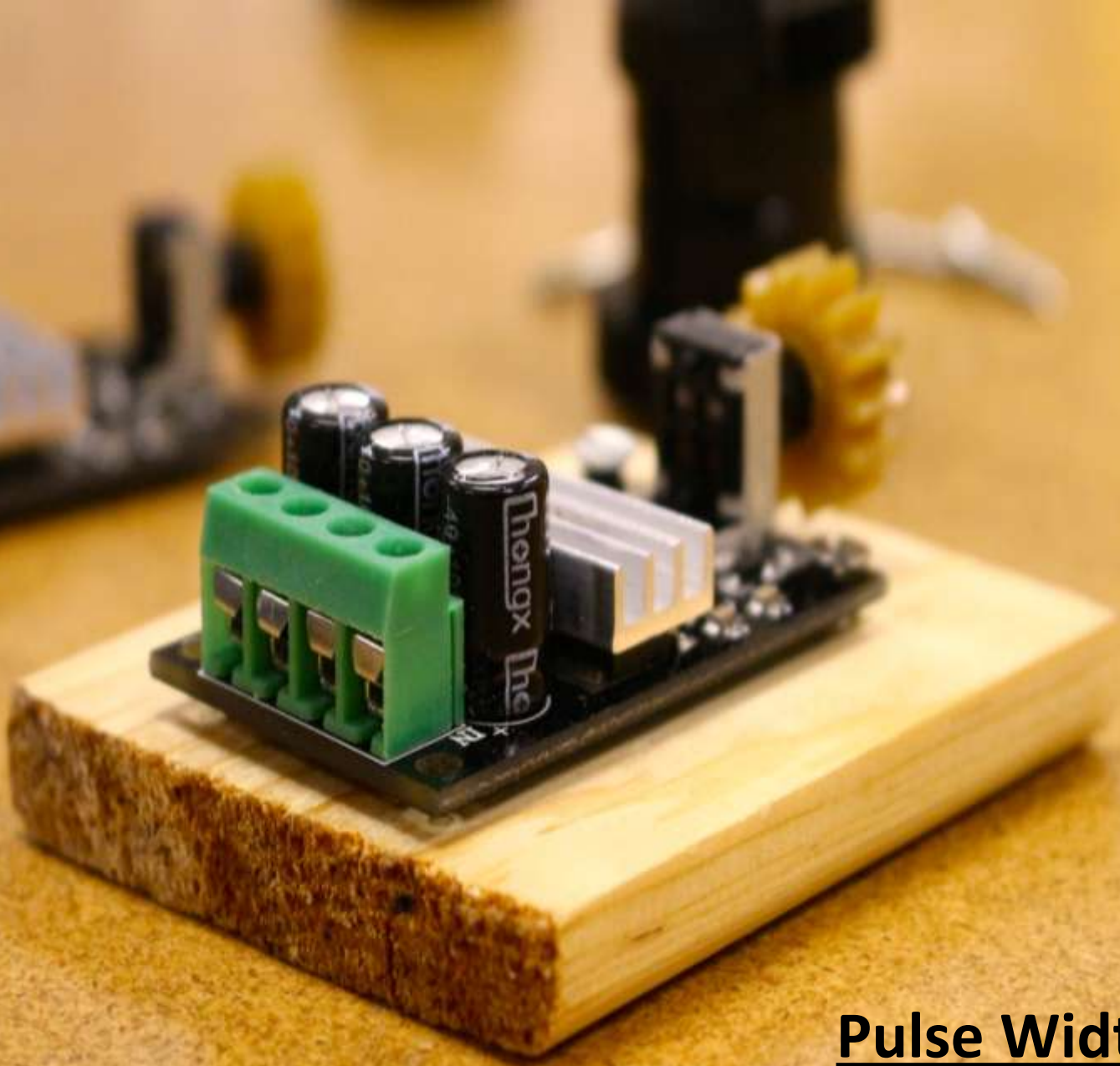
Old Design





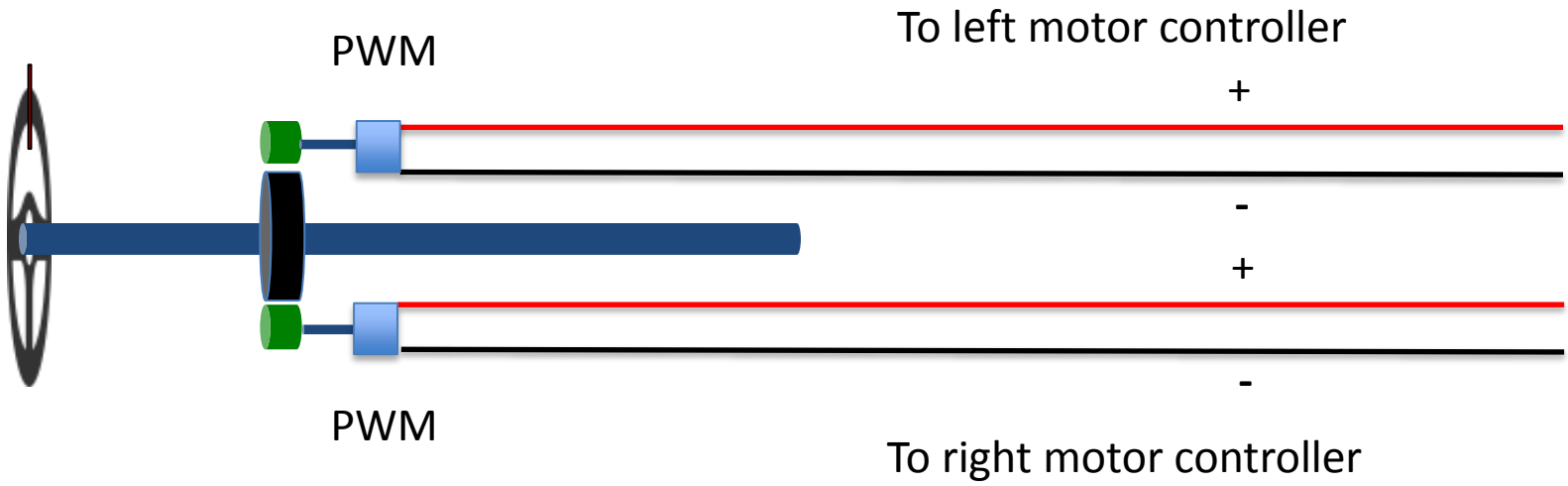
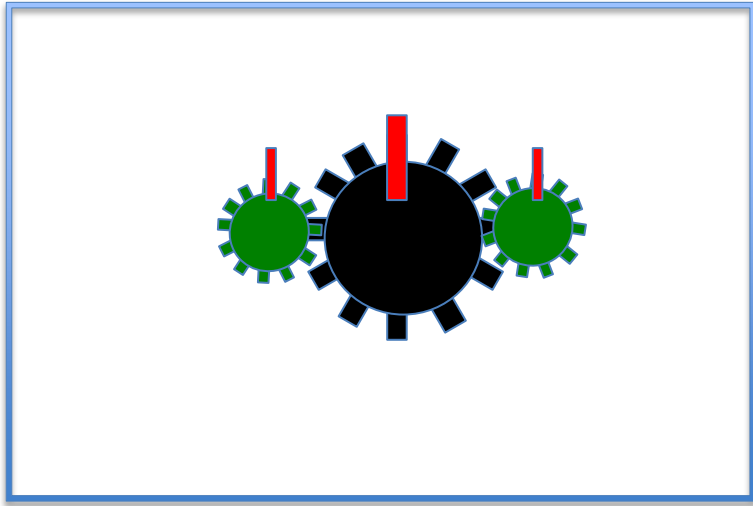
New Design

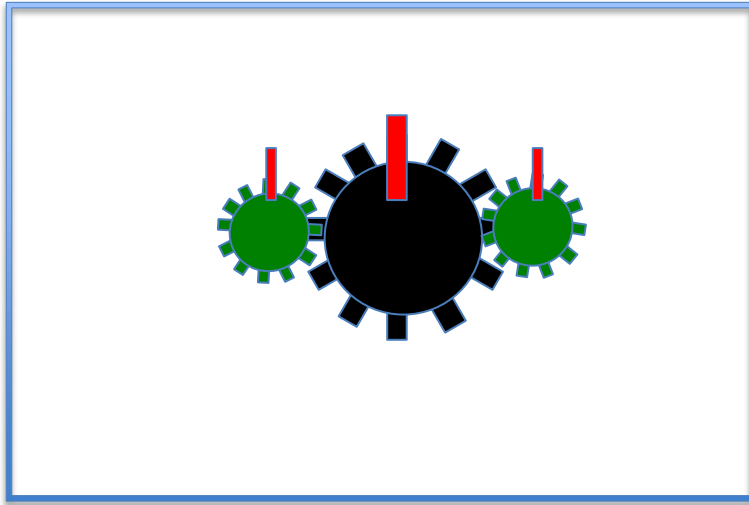
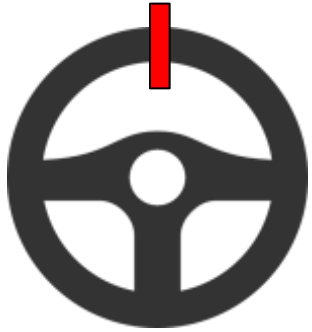




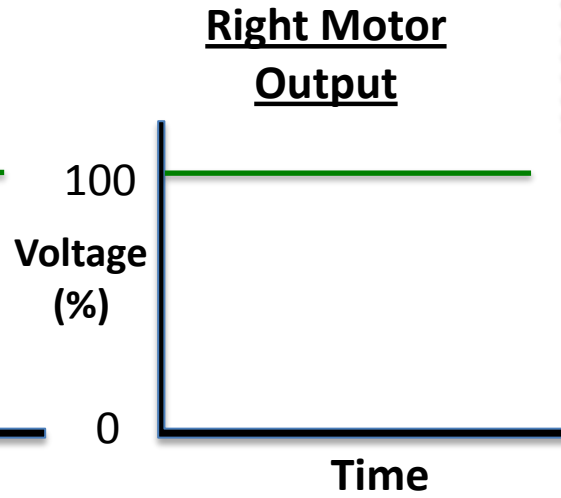
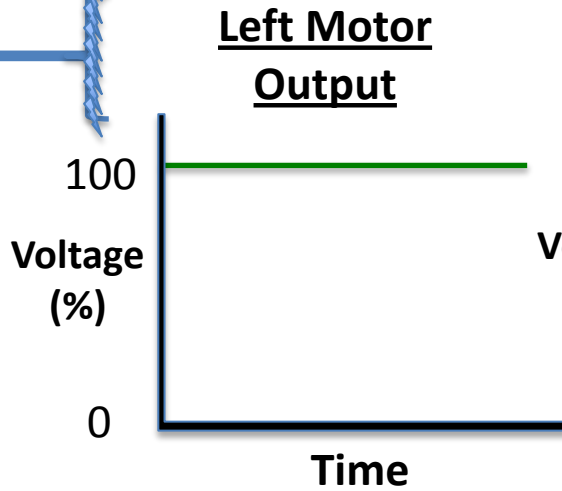
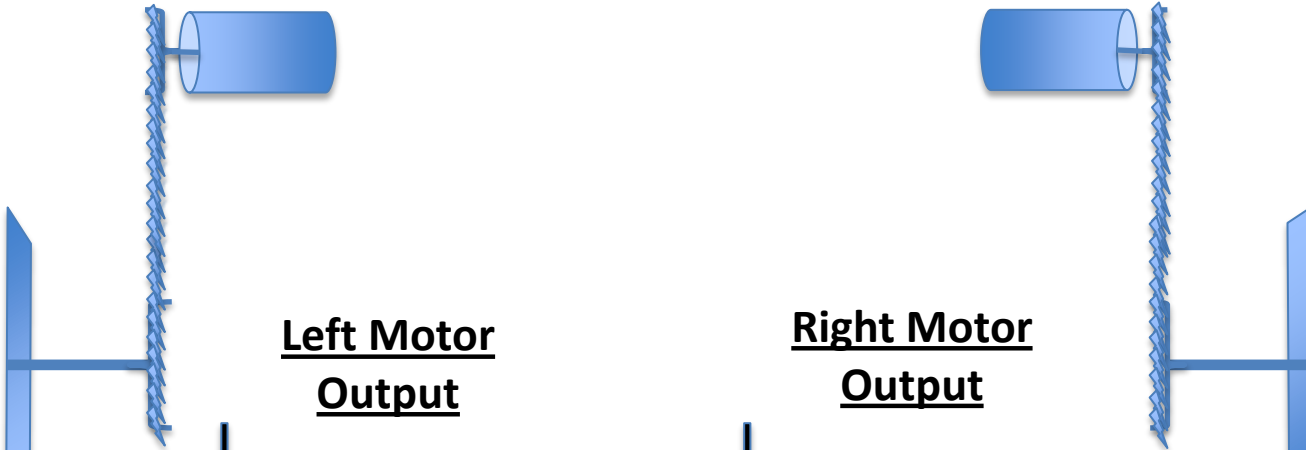
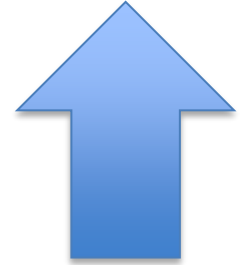
PWM

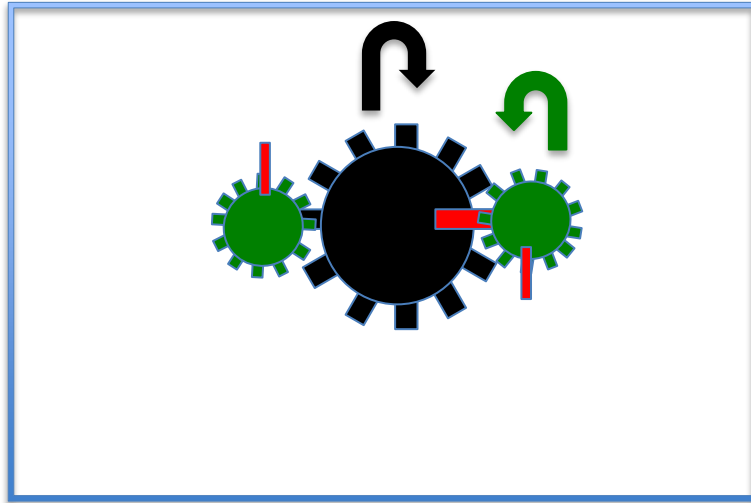
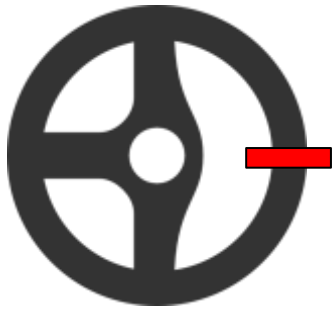
Pulse Width Modulator





Direction of Car

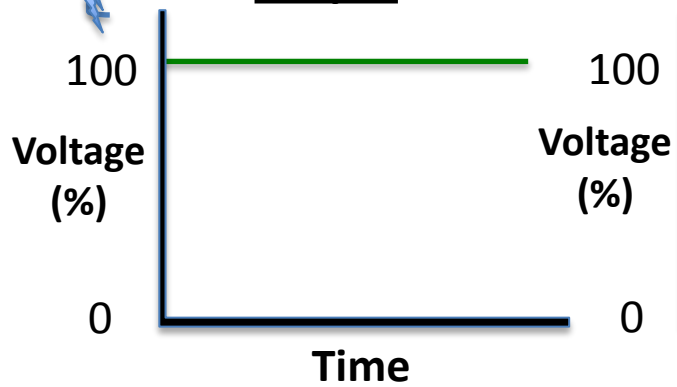




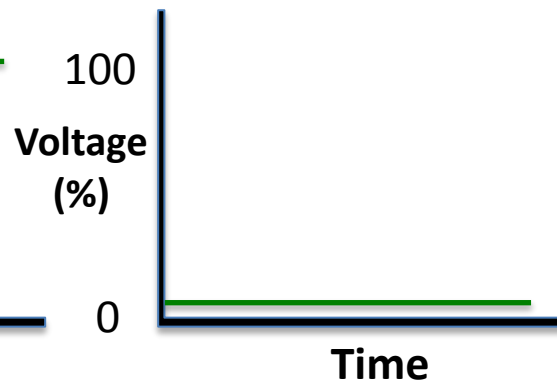
Direction of Car

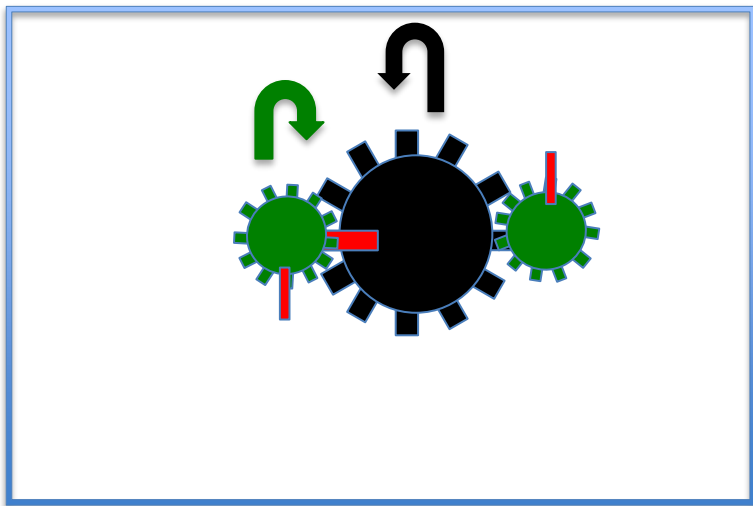
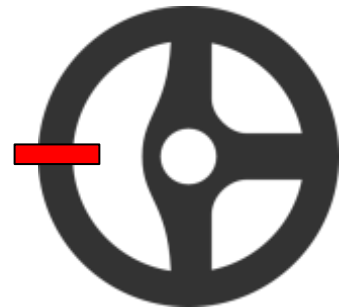


Left Motor
Output

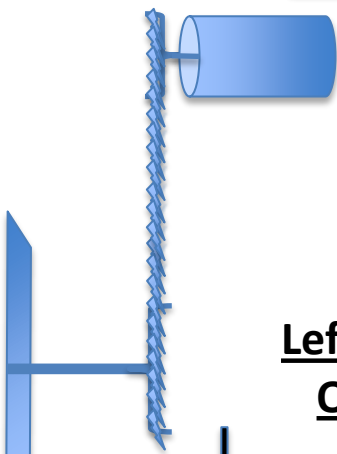
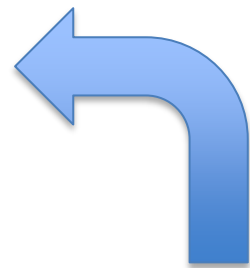


Right Motor
Output

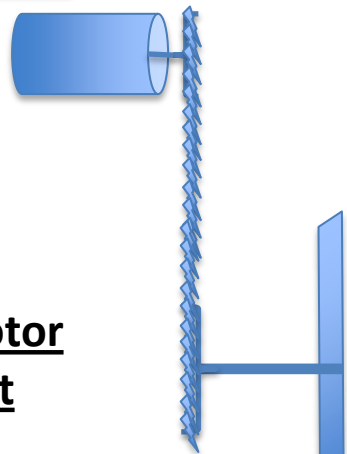
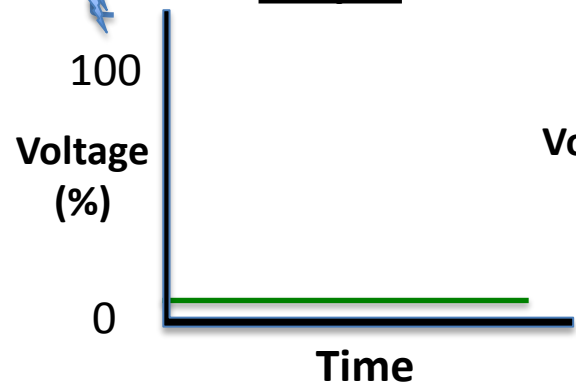




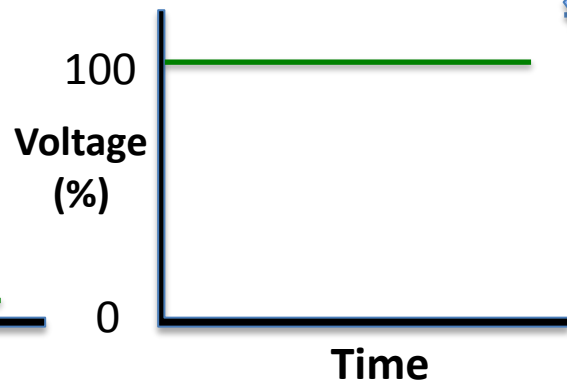
Direction of Car



Left Motor Output



Right Motor Output







Thanks to:

- Dr. Brad Layton
- Dr. Nicky Phear

Questions? – Email me at,

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