Date: 12/4/17

**Continuous Gain Function Testing**

Speed = 0.5 m/s

const int k1 = 231.7;

const int k2 = 36.3;

const int k3 = -3.75;

Speed = 1.0 m/s

const int k1 = 453.5;

const int k2 = 27.4;

const int k3 = -20.3;

Speed = 1.5 m/s

const int k1 = 393.6;

const int k2 = 16.72;

const int k3 = -49.7;

Speed = 2.0 m/s

const int k1 = 393.6;

const int k2 = 16.72;

const int k3 = -49.7;

Speed = 2.5 m/s

const int k1 = 492.9;

const int k2 = 10.36;

const int k3 = -45.4;

Speed = 3.0 m/s

const int k1 = 424.7;

const int k2 = 10.18;

const int k3 = -115;

Speed = 3.3 m/s

const int k1 = 325;

const int k2 = 11.5;

const int k3 = -132.8;

**Notes:**