Ryerson University
Department of Electrical, Computer, and Biomedical Engineering
ELE709 - Real-Time Computer Control Systems

**Project Answer Sheet 1**

**Name:** Toni Pano #500822828 Section 3

1. What is your motor number?

My motor number is 9. My student number is 500822828

3+1=9

2. What are the values of $K_u$ and $P_u$ determined in Task 2.2?

| Motor Number | $K_u$ | $P_u$ |
|---|---|---|
| 9 | 50.93 V/rad | 0.05224 s |

$30 < K_u < 100$

$50 < K_u < 51$

$50.5 < K_u < 51$

$50.6 < K_u < 51$

$50.7 < K_u < 51$

$50.8 < K_u < 51$

$50.9 < K_u < 51$

$50.91 < K_u < 51$

$50.92 \simeq K_u < 51$

$50.93 \simeq K_u < 51$

Roughly 67 complete cycles from $t = 0.50s$ to $t = 4s$

$$P_u = \frac{\Delta t}{\#cycles} = \frac{t_f - t_i}{\#cycles} = \frac{4s - 0.50s}{67}$$

$$P_u \simeq 0.052238805s$$