

**TO:** Prof. Pierre-Emmanuel Gaillardon, Course Instructor  
**FROM:** David Venegas  
**DATE:** April 12<sup>th</sup>, 2024  
**SUBJECT:** Post-Lab 07 (PID Motor Controller)

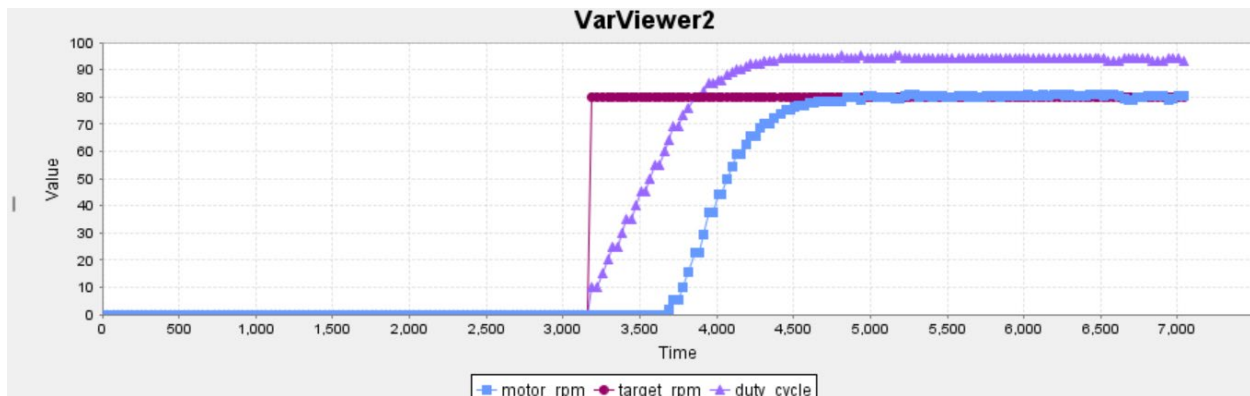
**What gain parameters did you end up using for your PI controller?**

$$K_p = 6$$

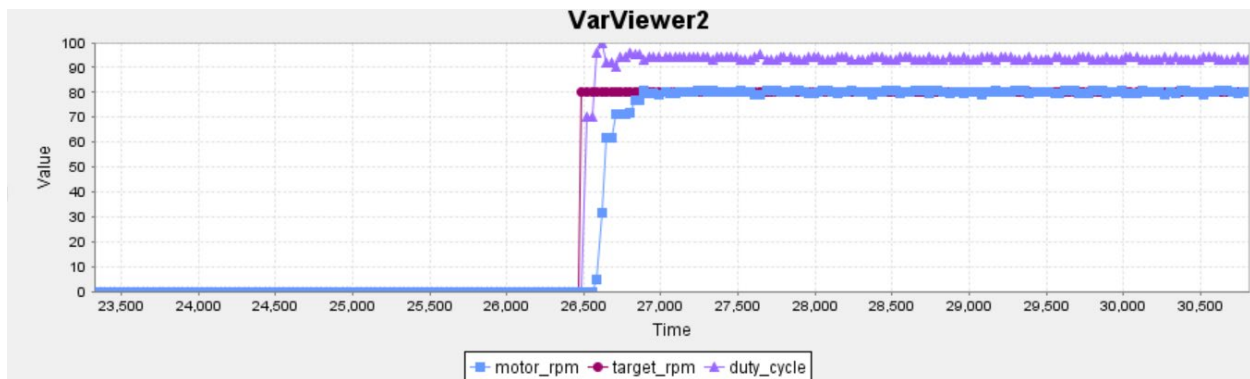
$$K_i = 8$$

**0 to 80 rpm**

**Before:**

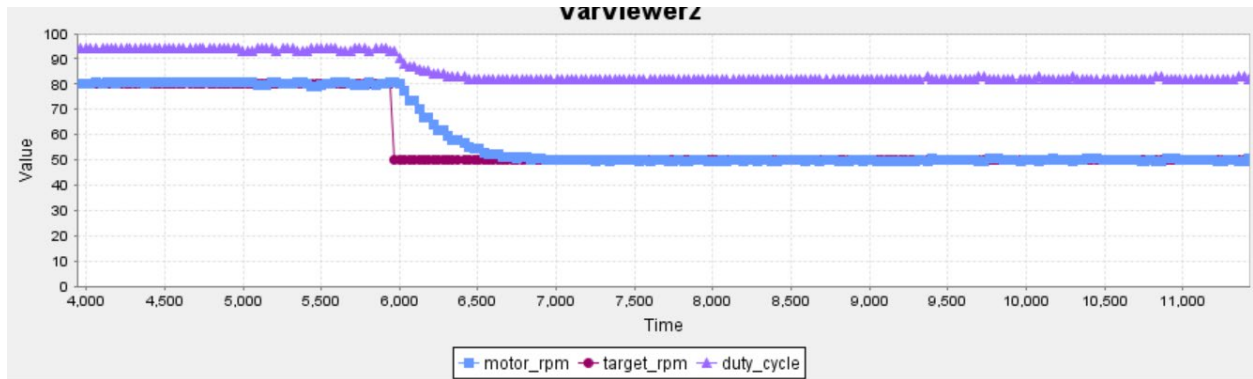


**After:**

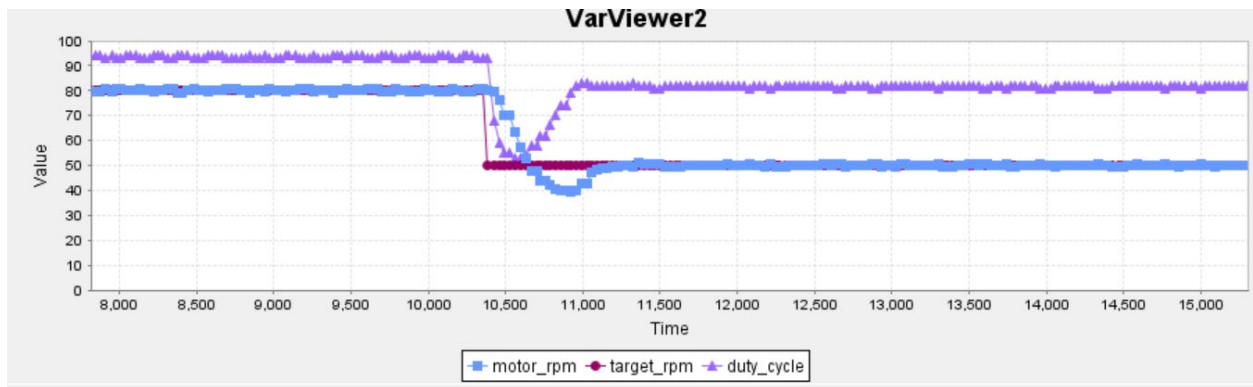


## 80 to 50 rpm

Before:

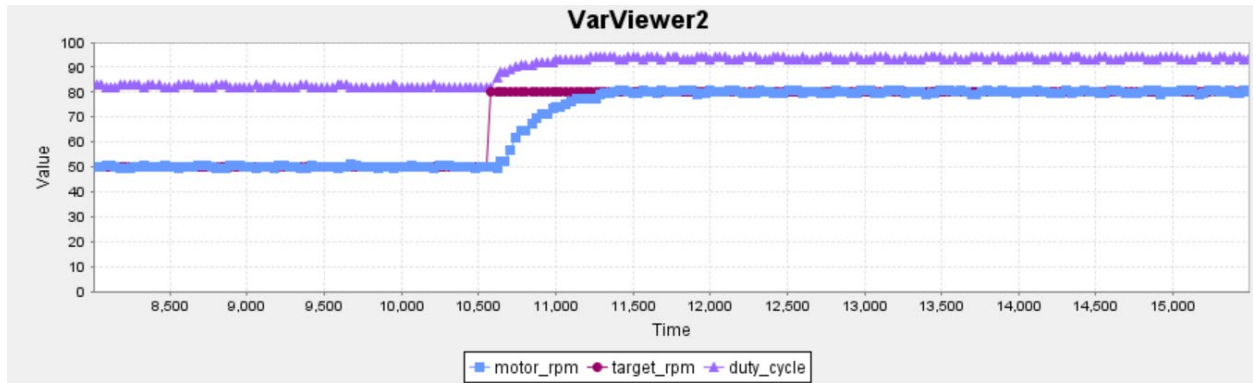


After:

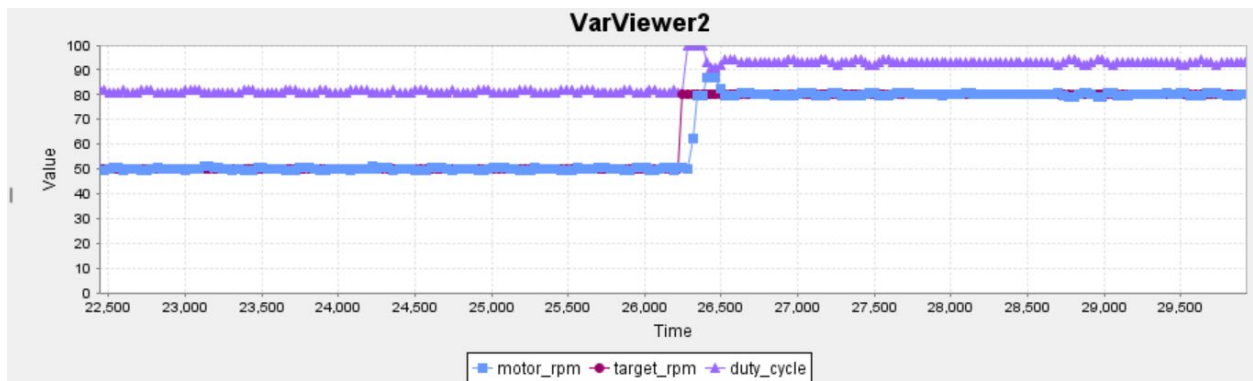


## 50 to 80 rpm

Before:

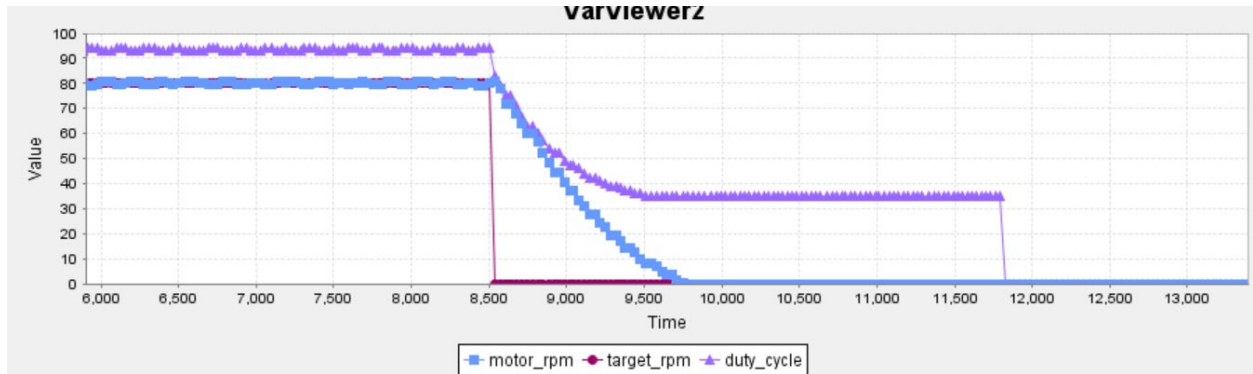


after:



# 80 to 0 rpm

Before:



After:

