**Report of Ex3\_SimElectronics\_DC\_Motor**

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**Submitted to: Dr. Jerry Ku**

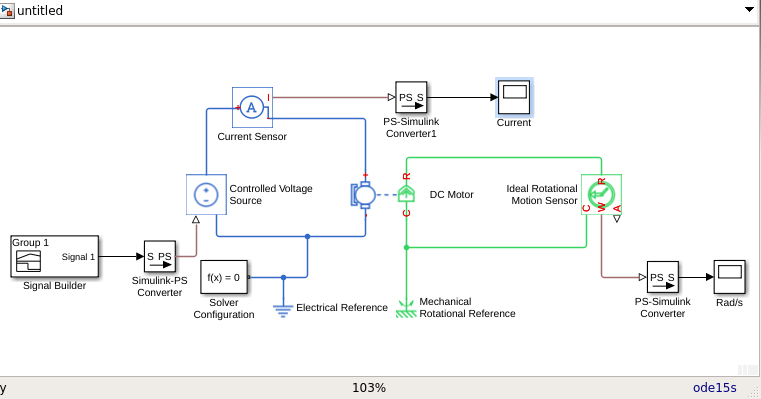
**Required Changes:**

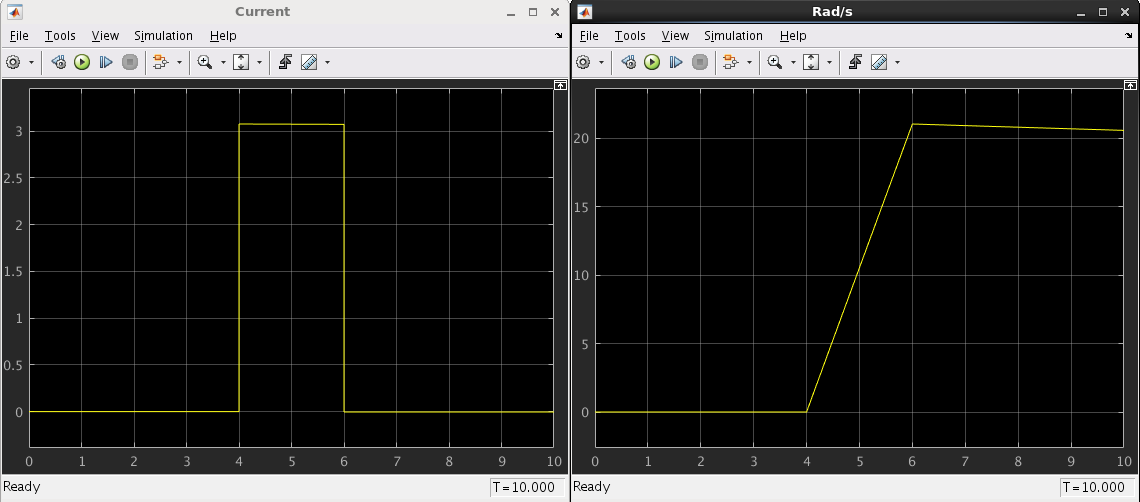
The structure of the tree is changed in library and therefore the location of various block has changed. These changes are updated in the PDF.

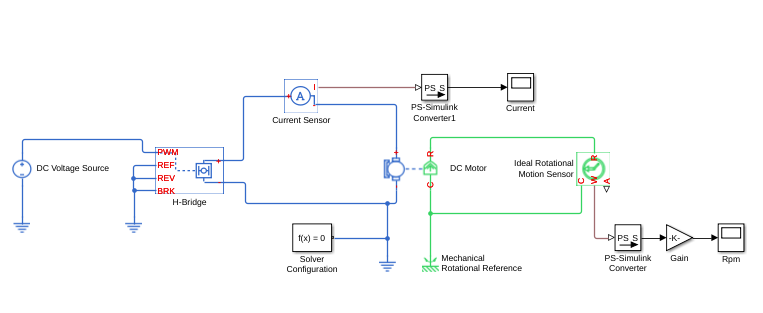
In Simulink-PS converter rad/s is present instead of rpm (Step 13) and hence select rad/s and if you wish to see plot in rpm add a gain block of ‘60/(2\*pi)’

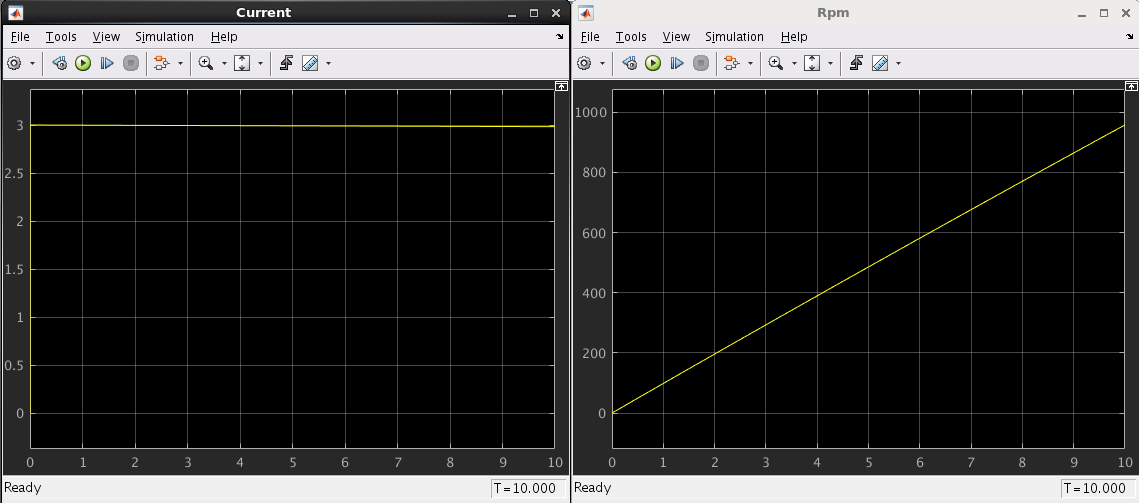
**Results and Discussion:**

The simulation was ran at various steps (21, 26,30, 35, 40, 44) all these results are similar to those in tutorial and are shown below in sequential order.

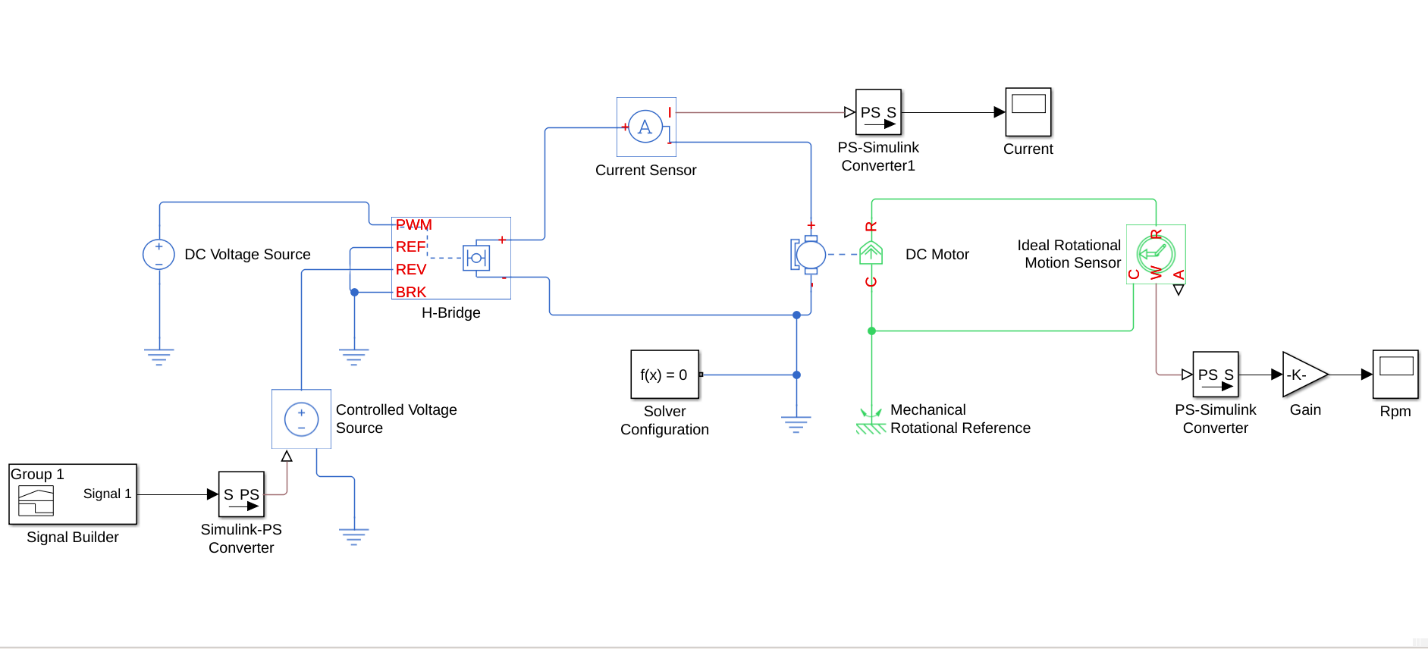


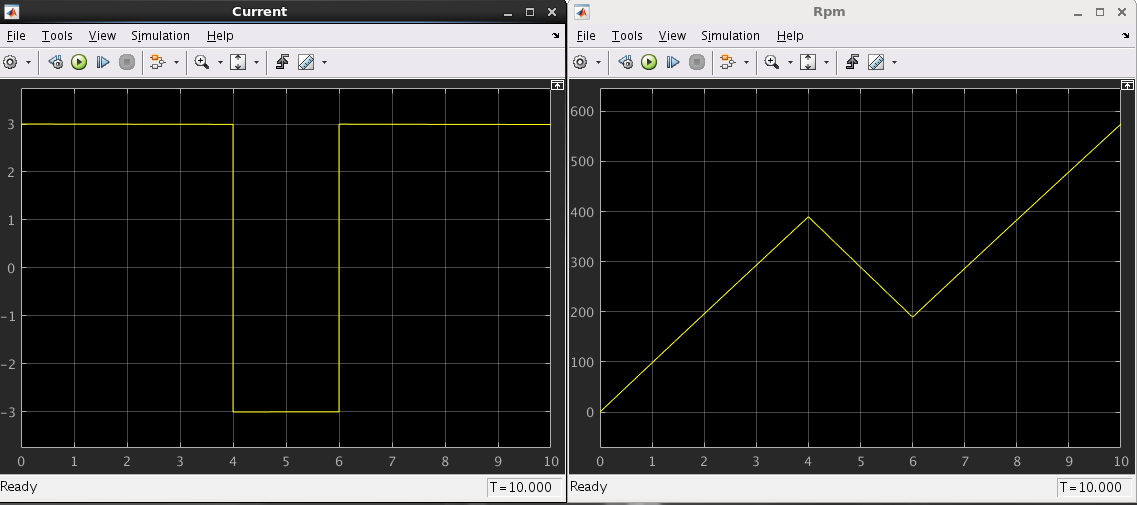




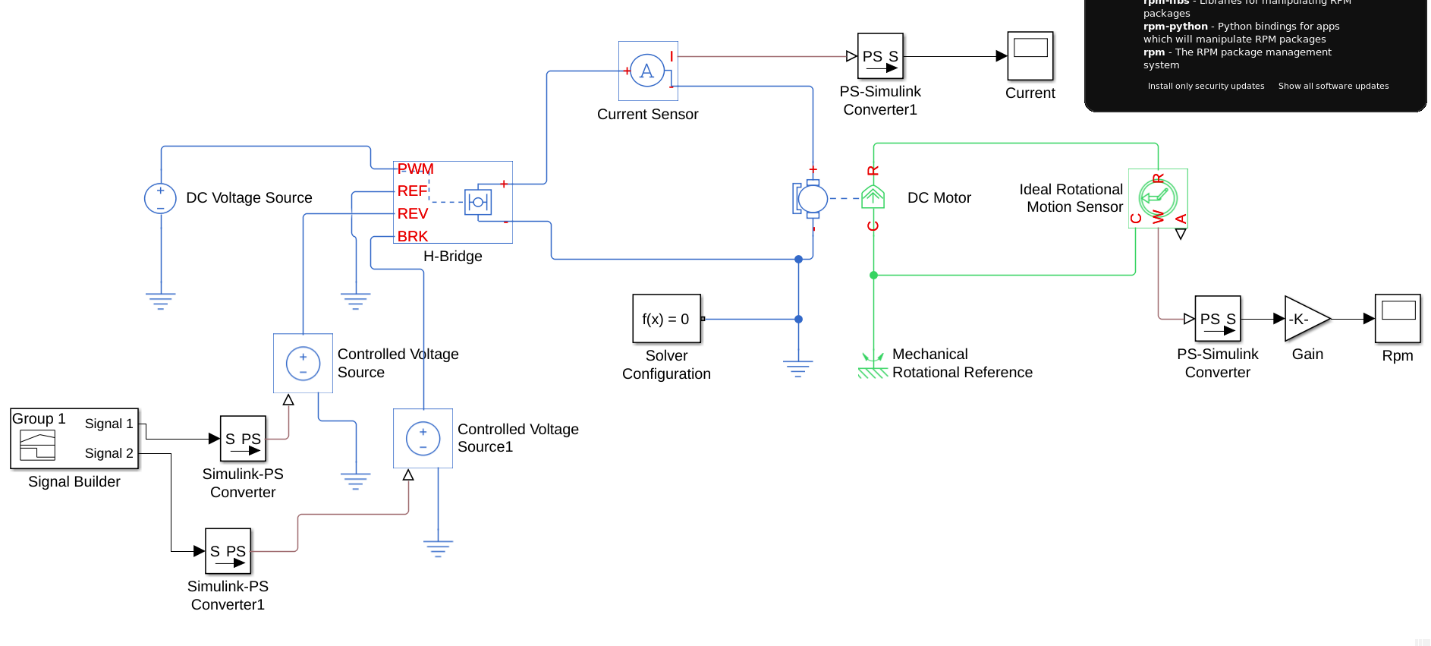


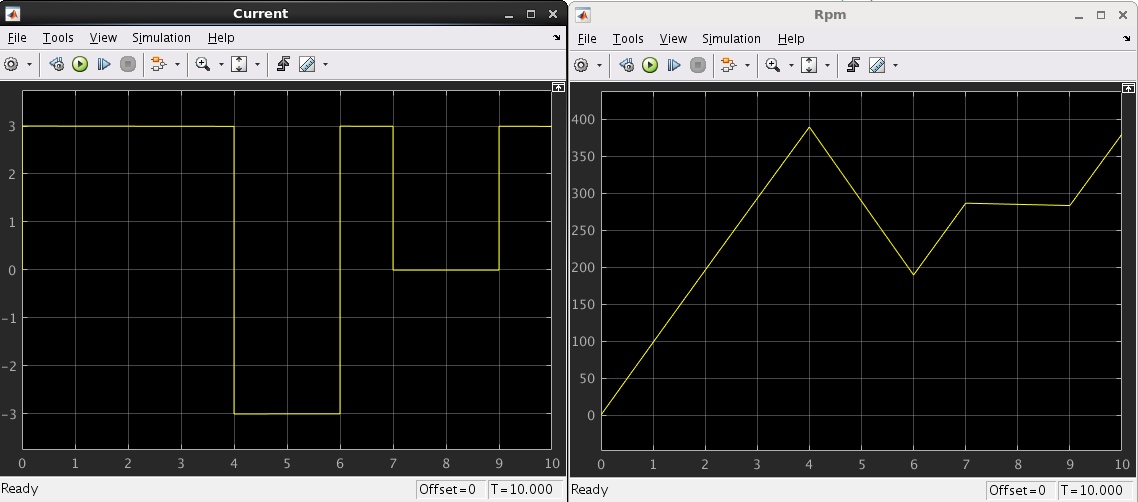
**Reverse Motor Using H-Bridge Control**



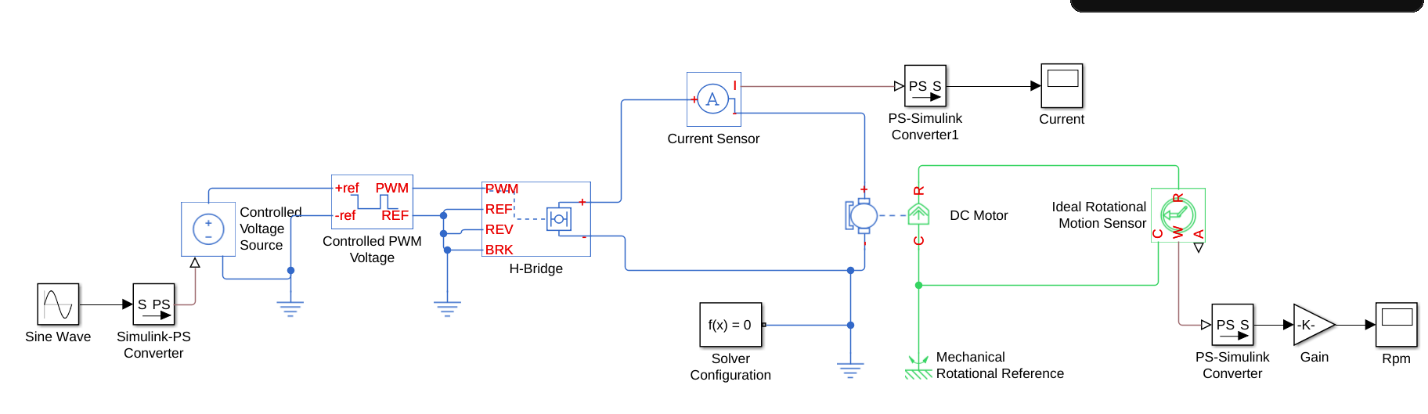


**Braking Using H-Bridge Control**





**PWM Driver Control**





**Verification with PWM Model**

