

# **INK RE-FILLER FOR MARKER PEN**

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## **ABSTRACT**

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My design on ink re-filler for marker pen is a semi-auto, friendly use is specially designed for all the marker pen users. The refill ink should be water based.

In my design, I use the concept of the way a syringe functions and modified it into an ink re-filler machine. Besides that, I also used the concept of the crankshaft to operate with the piston and syringe, so the piston could push downward and upward in the process of refilling marker ink. I'm using the Timer 555 to control the operation of the crankshaft, which govern the movement of the piston. This is a press button operation for refilling.