

## LAB 2 Assignment

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Tuesday 25<sup>th</sup> September, 2015

4-10. I tried mathematical derivation to implement two second order filter, and get their convolution consequence. I got to equation concern about  $r_1$  and  $r_2$  but failed to solve them. Below are my derivation. I was also stuck in this step in my matlab and python code which could be really easy if I got the relation between  $r$  and  $n$ .