Force control specs:

- -Apply between 0-50, aiming for +/- 0.1 N accuracy
- -For purposes of evaluation force/displacement sensitivities of actuators, use k = 55 N/mm for the roller-web-sample stiffness (from FE analysis with *no system compliance*; assumes 2" contact length, 1.5 cm roller radius (PDMS), and an applied force ~10 N).
- -The roller will be actuated vertically to impart a force to the sample, and the force will be measured below the sample. Note: the contact pressure (i.e., the pressure between the plastic web and the Si sample) is what determines printing performance; therefore, the force experienced by the sample is the force that governs that pressure.
- -The feedback loop will consist of: selecting a setpoint force (F_{setpoint}) , comparing the force on the sample (F_{sample}) with F_{setpoint} , actuating the roller to minimize the difference $(F_{\text{sample}} F_{\text{setpoint}})$, repeat ...
- -A feedback rate of >= 100 Hz to make force corrections
- -On the upper limit, record up to several thousand data points of the force history accumulated up to \sim 30 seconds save the data in a simple format.

