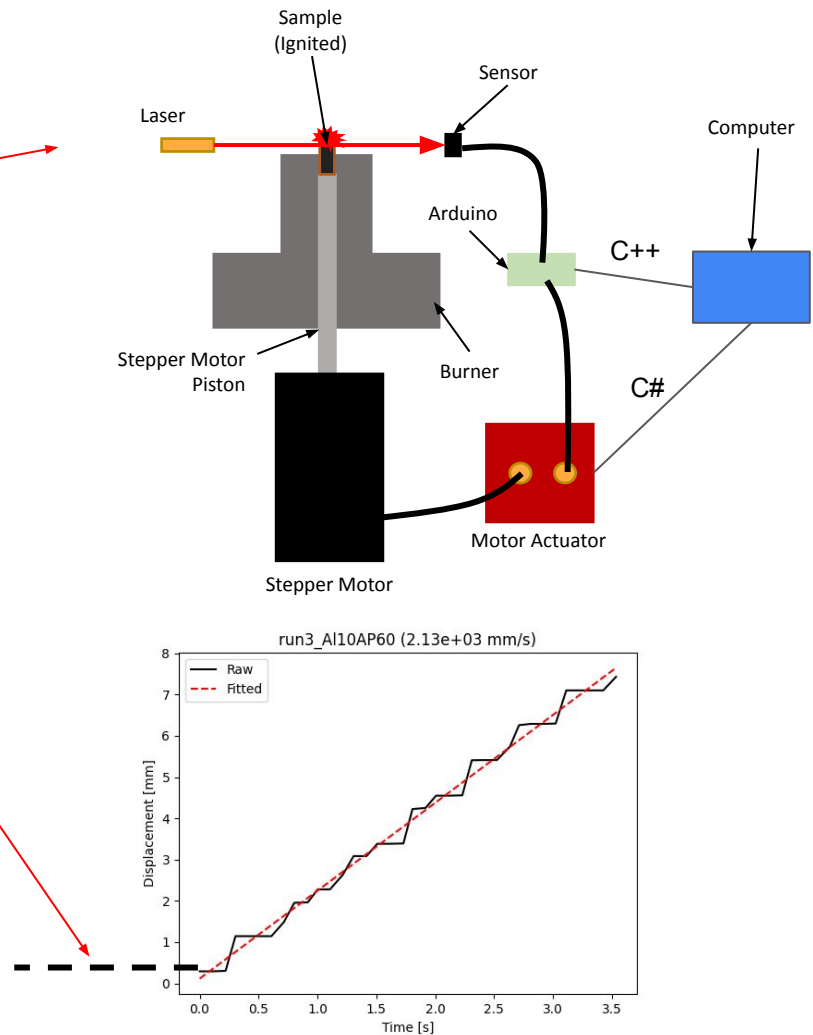
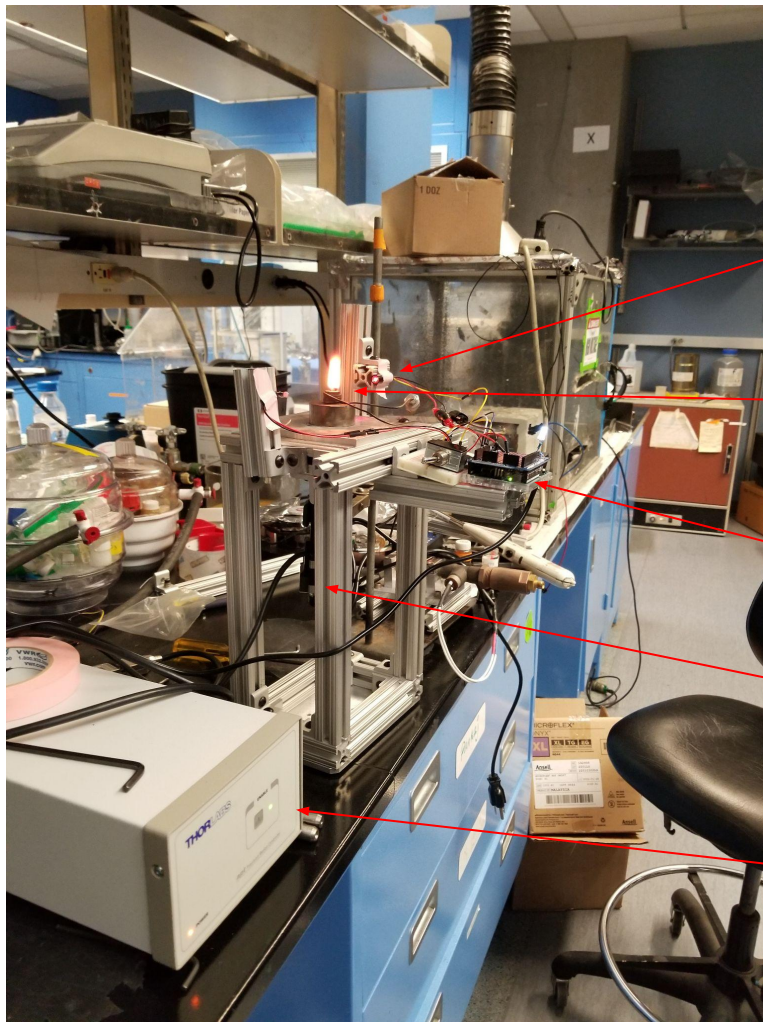


New Counter Flow Setup

- Stepper Motor:
 - Moves up when sensor “sees” the laser
 - Stops when the sensor doesn’t “see” the laser
- The computer continually polls the time, position and light value
- Repeats this until it gets to a max extension and saves the data
- We can then trim the raw data and fit the burn to a straight line
 - The slope is the burn rate: $x(t) = r_b \times t + x_0$



Final Setup



Lazer

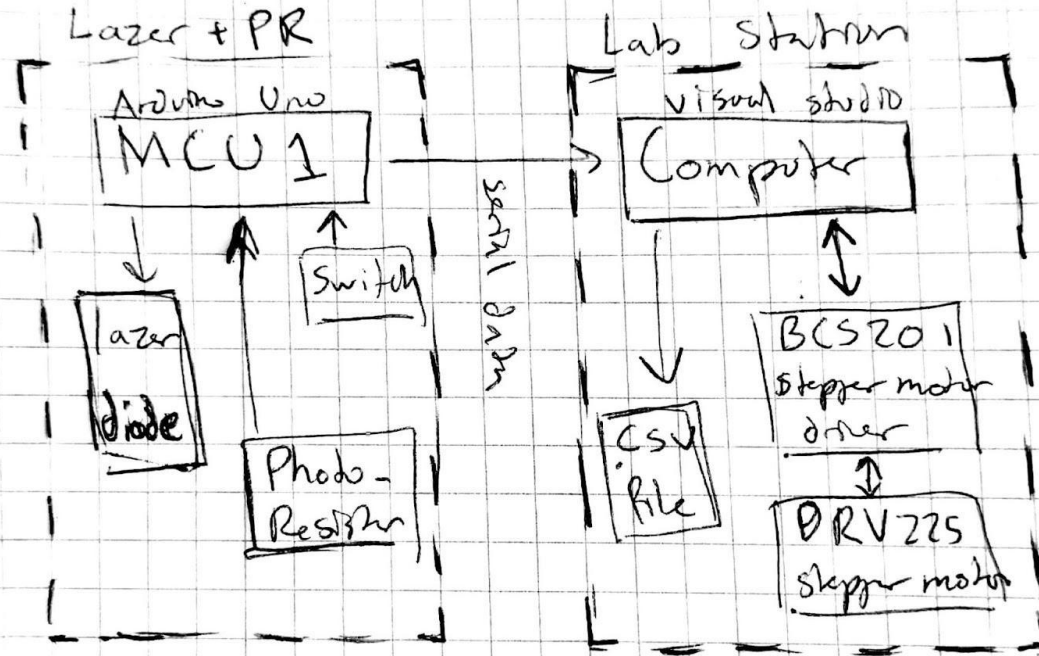
Ignited Sample

Arduino

Micro Stepper

Stepper Controller

Sample Extruder SBD



Distro Link:

<https://github.com/tupactopus/CounterFlowPropagationRate>