This folder contains all components with their specs. that were referenced from the 3D printer in the lab (Voxelab Aquila X2) and other sources that were included in this project.

Stepper Motor:

1.a Data Sheet for Aquila stepper motor

[https://www.moonsindustries.com/series/nema-17-standard-hybrid-stepper-motors-b020105?\_gl=1\*kvhln\*\_up\*MQ..\*\_ga\*MTc4OTYxNTc1NC4xNzIxNjY4OTU5\*\_ga\_7GZR52883K\*MTcyMTY2ODk1OS4xLjEuMTcyMTY2OTU3Ni4wLjAuMTQ2NjUzOTM0OA](https://www.moonsindustries.com/series/nema-17-standard-hybrid-stepper-motors-b020105?_gl=1*kvhln*_up*MQ..*_ga*MTc4OTYxNTc1NC4xNzIxNjY4OTU5*_ga_7GZR52883K*MTcyMTY2ODk1OS4xLjEuMTcyMTY2OTU3Ni4wLjAuMTQ2NjUzOTM0OA)..

1.b Stepper Motor from Aquila

[https://www.moonsindustries.com/p/nema-17-standard-hybrid-stepper-motors/ms17hd5p4100-000-000004611110027301?\_gl=1\*pd8rj4\*\_up\*MQ..\*\_ga\*MTc4OTYxNTc1NC4xNzIxNjY4OTU5\*\_ga\_7GZR52883K\*MTcyMTY2ODk1OS4xLjEuMTcyMTY2ODk4Ni4wLjAuMTQ2NjUzOTM0OA](https://www.moonsindustries.com/p/nema-17-standard-hybrid-stepper-motors/ms17hd5p4100-000-000004611110027301?_gl=1*pd8rj4*_up*MQ..*_ga*MTc4OTYxNTc1NC4xNzIxNjY4OTU5*_ga_7GZR52883K*MTcyMTY2ODk1OS4xLjEuMTcyMTY2ODk4Ni4wLjAuMTQ2NjUzOTM0OA)..

2.a Proposed stepper Motor to use for feeder. (meets specs from 3d printer with less power usage)

<https://www.digikey.com/en/products/detail/pololu-corporation/2267/10450005>

Servo Motor:

<https://www.hiwonder.com/products/lx-225>

Gear Motors (JGB37-520R90-12):

<https://www.hiwonder.com/products/hall-encoder-dc-geared-motor?variant=40451123740759&_pos=10&_sid=fb13a1b9a&_ss=r>