

BOM Electronics

This document outlines essential components required for building the shredder.

Components

The following table lists the components necessary for assembling the electronics. Optional components are marked with *

| ID | Item | Material | Quantity | Link |
|----|---------------------------------------|----------|----------|---|
| 1 | Arduino Uno | | 1 | https://store.arduino.cc/products/arduino-uno-rev3?srltid=AfmBOoryz0R57xpHzzZM81fNsVgdM2d6e5Gq1D9oCW6n_iAZb1saQQDX |
| 2 | 16x2 I2C LCD Display Address: 0x27 | | 1 | https://www.aliexpress.us/item/1005006085343415.html?src=google&pd_p_npi=4%40dis%21EUR%211.21%211.21%21%21%21%21%21%40%2112000035661666782%21ppc%21%21%21&src=google&albch=shopping&acnt=298-731-3000&isdl=y&slnk=&plac=&mtctp=&albbt=Google_7_shopping&aff_platform=google&aff_short_key=UneMJZVf&gclsrc=aw.ds&albagn=888888&ds_e_adid=&ds_e_matchtype=&ds_e_device=c&ds_e_network=x&ds_e_product_group_id=&ds_e_product_id=en1005006085343415&ds_e_product_merchant_id=5089408953&ds_e_product_country=NO&ds_e_product_language=en&ds_e_product_channel=online&ds_e_product_store_id=&ds_url_v=2&albcpr=21627925185&albag=&isSmbAutoCall=false&needSmbHouyi=false&qad_source=1&qad_campaignid=21634522559&gbraid=0AAAAqc5ie1OKkm5g4Uzg7gkq1CRbybP_&qclid=Cj0KCQjw5ubABhDIArIsAHMighZQxXRg8FOkbWryVEXlrHnaxIR6BKWgDFGf5LjG0Isq0eEoFPellsaAloSEALw_wcB&gatewayAdapt=glo2usa |
| 3 | Momentary Push Button | | 1 | https://www.aliexpress.us/item/3256 |

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| | | | | 805662396061.html?spm=a2g0o.pr oductlist.main.21.6cbf1f18OKJsNd& algo_pvid=3d2ef3f2-b68c-44ce-b9fd -54fd0e0a57cc&algo_exp_id=3d2ef 3f2-b68c-44ce-b9fd-54fd0e0a57cc- 10&pdp_ext_f=%7B%22order%22% 3A%2275%22%2C%22eval%22%3 A%221%22%7D&pdp_npi=4%40dis %21USD%211.76%211.56%21%21 %211.76%211.56%21%402103956 a17465421417618754e26d2%2112 000034565686333%21sea%21US %210%21ABX&curPageLogUid=7P etJtaaquGC&utparam-url=scene%3 Asearch%7Cquery_from%3A |
| 4 | WS2812B LED Strip 4 LEDs | | 1 | https://www.fibel.no/product/ws2812 b-neopixel-pixel-led-strip/?srsltid=Af mBOopAH0Vv36monS-HPZx3gQyJ 3OkJDmQXrJ0zuG5A_po6k7F0Jrh I |
| 5 | Piezo Buzzer - PKM22EPPH4002-B0 | | 1 | https://www.digikey.no/no/products/ detail/murata-electronics/PKM22EP PH4002-B0/2595277?gad_source= 1&gad_campaignid=20277145871& gbraid=0AAAAADrbLlj-o2vP-Egd_Zi Wn0xH5Ob-G&gclid=Cj0KCQjw5ub ABhDIARIsAHMighaVh73Tvg7JnuA 5kcsUhn0y8bUVbFrtSQloYFb33lgO N_E96ZZn- UaAvWFEALw wcB&g clidsrc=aw.ds |
| 6 | 220Ω resistor | | 1 | |
| 7 | Breadboard | | 1 | |
| 8 | Jumper wires | | 17 | |
| 9 | Housing | PLA | 1 | |
| 10 | Housing Lid | PLA | 1 | |

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| ID | Item | Material | Quantity | Link |
|----|------------------------------|----------|----------|------|
| 11 | Mounting Plate | PLA | 1 | |
| 12 | M3 Screw 16 | Steel | 11 | |
| 13 | M3 Bolt | Steel | 22 | |
| 14 | USB A to USB B cable 1.5m | | 1 | |
| 15 | 5V USB A Power adapter | | 1 | |