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| Objectives | Constraints | Criteria |
| -Sorter should be able to handle 10 items/min | -Sorter must be able to handle 1 item at a time | -Higher items/min better |
| -Nice if sorter can handle multiple items at once | -Sorter must not misidentify glass/Styrofoam into other types | -Smaller mis-sorted items / 20 better |
| -Sorter should be modular | -Sorter must not mis-sort more than 1 item in 20 | -Inexpensiveness |
| -Sorter should be open-source | -Non-Electrical parts must be 3d printable | -Sustainability of design (IE recyclability of parts, reuse of parts) |
| -Sorter should cost < $100 USD | -Sorter must handle >5 items/min |  |
| -Would be nice if sorter could identify types of plastic/glass | -Sorter must cost < $200 USD |  |
| -Nice if sorter can be adapted to other garbage can sizes | -Sorter must identify glass, metal, plastic, and paper uniquely |  |
| -More parts that can be found from common household items the better | -Sorter must fit std 60L garbage can |  |