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Selection Criteria Assignment

Criteria: Number of components the wet concrete touches

Rational: The fewer items the wet concrete comes into contact with the less that needs to be disassembled to properly clean cutting down on cleaning time and increasing ease of cleaning.

Criteria: Ability for fine controllable

Rational: The ability to have fine control over systems allow for a more repeatable results and finer precision in the printer

Criteria: In expensive

Rational: The budget for the project is very limited and increase in budget is not guaranteed so our dollar must be stretched to the maximum of our ability to be able to complete the project.

Criteria: Limit waste material

Rational: Concrete while inexpensive caused significant environmental damages in its production. It is our responsibility in the development of the concrete 3D printer to work our best to limit waste for environmental reasons, wasted costs, and easier cleaning.

Criteria: Limit the need for outside equipment

Rational: A typical 3D printer does not require much if any outside tools for it to operate correctly this should be considered in order to reduce set up times, clean up times, storage space, and ease of use.

Criteria: Repeatability

Rational: It is the expectation from the customer that a print should be a certain size tolerance. In order for this to be possible solutions should be repeatable for ease of use and ability to test.