

## XinCheJian Project Selection Guidelines for GGHC

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The project needs fit all implicit and explicit criteria.

We need to be able to complete:

- prototype hardware
- test low-level hardware and functions
- develop high-level software
- test prototype
- productionalize (PCB)
- test final version
- mass produce (if more than one copy is needed)

...within 6 weeks.

The explicit criteria given by the organizers are:

- How reproducible is the final project?
- How easily can the parts be sourced in locations around the world?
- How low cost is the final output?
- How well are the plans documented?
- How relevant is the project to helping education today?
- How inventive and creative is the design and build of the project?

...while the implicit criteria are:

- mobility of device (portable power source)
- intelligence (micro-controller)
- don't do something that can be easily done with a mobile phone or computer
- interaction with and/or in the real-world
- design and produce in as little time as possible
- produce an high quality product
- get appreciation and approval from educational stakeholders
- lowest price
- simplicity (lower cost and build time)
- make a difference in an educational setting
- how common are the parts?
- combine electronic parts in ways that haven't been thought of before