

## Project Parts List Requirements

Project parts lists are due as specified in the class syllabus. Please adhere to the following guidelines.

1. Each project group may assume that they will receive one Adapt9S12DP256 board, prototyping ("holey") board(s), and a 9S12 demo board. Projects working on the robots will receive the full robot kit. Any parts required beyond these must be specified in the parts list.
2. Non-standard (other than 5V) power will be derived from the bench power supplies. Do **not** plan to build a power supply.
3. Often projects require hardware construction, the new hardware **must** be built on the prototyping board, using wire-wrapping. All cabling **must** use proper connectors and cables (e.g. ribbon cables, 40 pin connectors, etc.)
4. The part list should include **all** small parts (resistors, capacitors, sockets, switches and buttons) in addition to major components (IC's, keypads,etc). Use preferred values for resistors and capacitors whenever possible, and all IC's must be socketed.
5. You should specify any cabling and connectors beyond wire-wrap wire, hookup wire, zip cord and coax.
6. Nearly all parts can be obtained from standard vendors: Mouser, Jameco, Digi-Key and Newark. Use Newark as a last resort since they are the most expensive. Catalogs for these vendors are available on the web, some copies can be found in the lab.
7. Submit your part list as an Excel spreadsheet to the TA. Organize your parts lists by vendor. Every item must be specified as follows:

Quantity	Vendor	Part number	Description	Cat.page#	Cost	Extension
2	Mouser	C346-7442	74LS42 decoder	21	.73	1.46

A full description is important. We generally try to optimize for cost and speed of delivery, and can often find what you want faster and cheaper elsewhere.

8. **Please make every effort to make your parts lists complete and correct.** It takes about 3-4 weeks to get orders in, so if you leave something out you will be hard pressed to complete your project on time. The Department does not stock electronic parts, so you *must* order everything you need.
9. If a "must-have" item is not included, we will make every effort to get it for you. However, the wheels of bureaucracy grind slowly and you may end up having to pay for it out of your own pocket to meet the deadline. (See the previous point.)