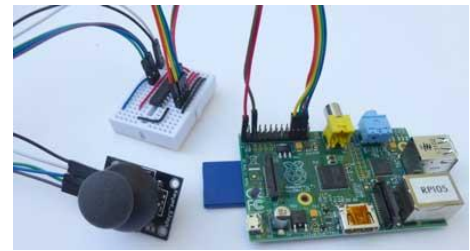




Custom Project

Using a RPi (rasberry pi) along with course related components will allow students to design and build customized projects based on their interests. Through research and selection, students can learn more about the requirements and how to complete related projects.



Students are to use the RPi as a project base to work from, include GPIO (General Purpose Input Output) use, other related hardware/software mediums, and research three project ideas, one at a beginner level, one at an intermediate level, and one at an advanced level. Each project idea is to include information, details, and related pictures on the class share wiki with the following *Key information (with weights included):

1. Title, complexity level, Rpi details, and project description /8
2. Hardware components, description, supplier, and cost /30
3. General build steps/process /20
4. Software and programming - language, preparation, and coding requirements /20
5. Project operation of how it is supposed to work /10
6. Conclusion of learning experience in the form of knowledge, skills, and values /6
7. Minimum of three related resource support links /6

Project ideas can be based on projects already done, combinations or partial projects done, and/or completely new ideas that are practical and realistic in expectations. These projects must be in your own words summarizing with the highlights and not copied from a source document/tutorial and be supported by images. Once complete, students will present their project ideas to the rest of the class and possibly support further possibilities and interests.

Evaluation

Once done, give yourself a mark and have a partner review and peer mark your three custom projects below.

Evaluation Table for Report of 3 Custom Projects						
#	Category	Description	Mark	Self-Eval. Mark	Peer-Eval. Mark name _____	Teacher Mark
1	Content	* All key information (10+15+20)	/45			
2	Information	Clearly laid out and easy to follow	/5			
3	Visual	Format, images, and spacing	/5			
4	Research	Depth and amount of information	/10			
5	Marks	Total Mark	/65			

Peer Markers, remember, only mark one person