

# PC/CP 320 Project Overview

Terry Sturtevant

Wilfrid Laurier University

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# Outline

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Allows you to investigate something that has been mentioned, but you haven't used in the lab

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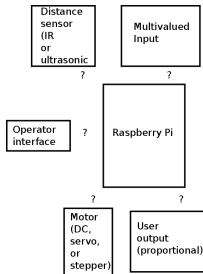
- The integration project only involves previously-seen material.  
The challenge is adapting the code to incorporate all of them.
- The exploration project introduces something you've never used.

The challenge is learning how to use it.

Trying to combine both would make it too easy to get overwhelmed.

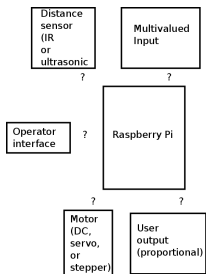
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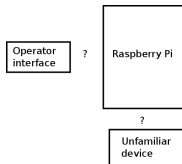
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Note that the “?” may include more than just signals, such as a D/A or A/D converter.

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*They may not yet interact; they just need to all be connected and functional at the same time.*



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Show it doing *something that wasn't in any of the resources you found*.
- Lab 5A; *Demonstrate the completed exploration project.*

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Show it doing *something*.
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Show it doing *something that wasn't in any of the resources you found*.
- Lab 5A; *Demonstrate the completed exploration project.*  
Be sure to highlight what you came up with on your own.

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This means that you are basically doing the projects in parallel.

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- *If you can show it working on time as the 4<sup>th</sup> device, the integration demonstration can be delayed.*

# Component Options

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Following are some examples of options for the various system components.



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- **DC motor** - needs MOSFET for control  
Also needs shaft encoder *inputs* to monitor speed and position

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These are *in addition* to simply monitoring the status of the system.