WHAT IS...

FINAL PROJECT

what to do and what not to do

Fab Academy 2026 Students Bootcamp
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OUTLINE

What is Final Project?

WHAT IS FINAL PROJECT?

Final Project is the project that you will make and present near the end of the course that will integrate everything we covered in Fab Academy.

Each student will use the skills and tools covered in Fab Academy to create one final project to rule them all, document it, and give a presentation.

link to project presentation requirements
link to presentation examples of 2025

Your project should incorporate:

- 2D and 3D design
- Additive and Subtractive fabrication processes
- Electronics design and Production
- Embedded microcontroller interfacing and programming
- System integration and Packaging

Where possible, you should ***make*** rather than buy the parts for your project

What is Final Project?: Requirements

All throughout the course you are required to do documentation, and this is also the case for your **Final Project.**

You will be required to
Prepare a summary slide and a *one minute video* showing its
conception, **construction**, and **operation**

Link to Project development examples
https://finalprojects.fabacademy.org/#/thumbnails/2025

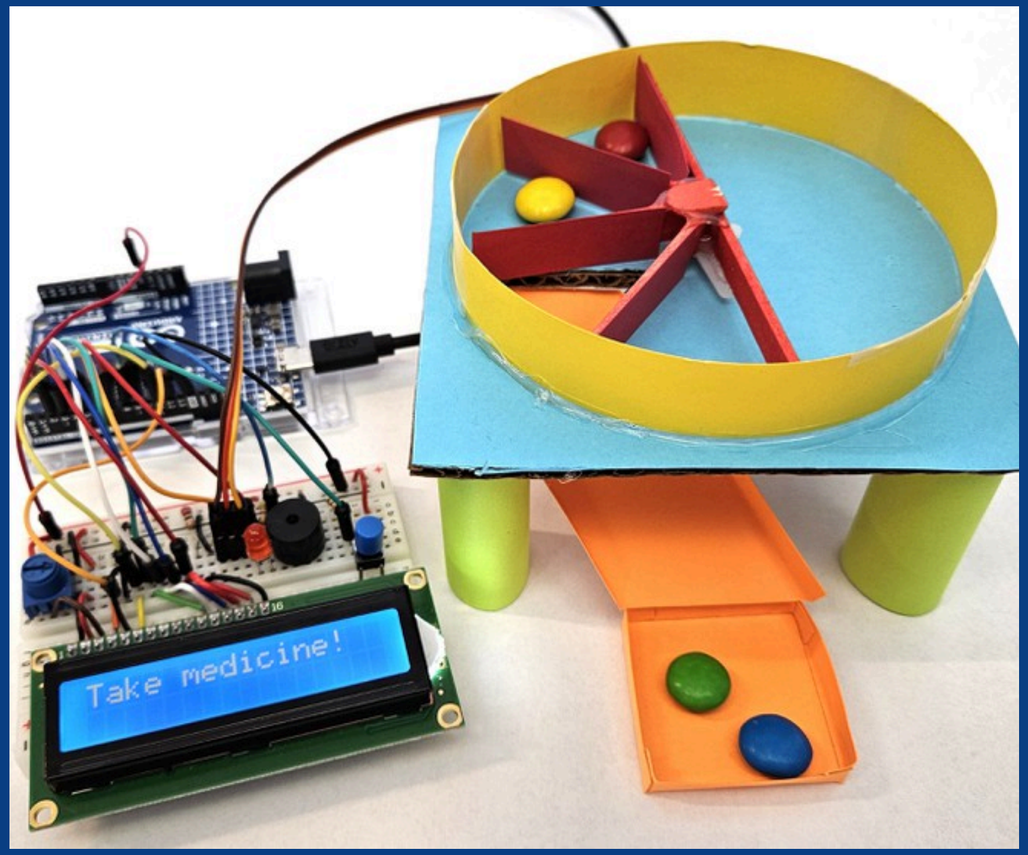
What is Final Project? : Documentation and Video

What’s good?

WHAT'S GOOD?

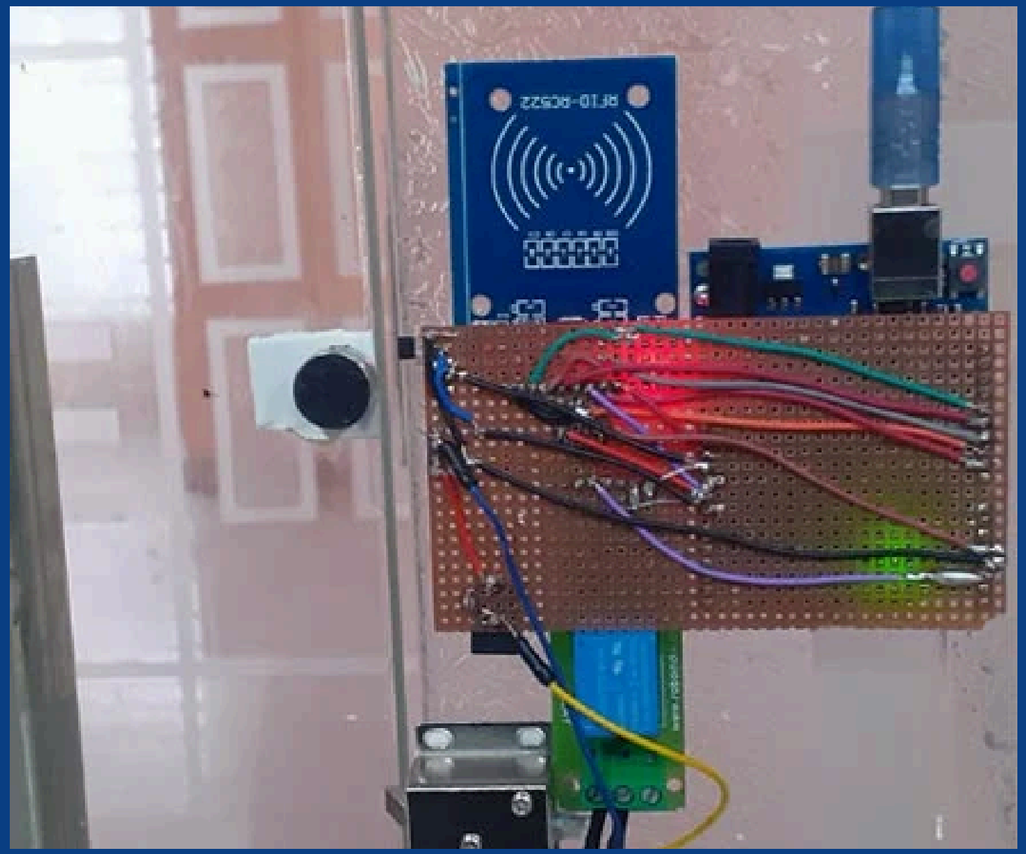
System integration involves combining independent components (such as mechanical parts, electronic components, software, etc.) into a coordinated working system.

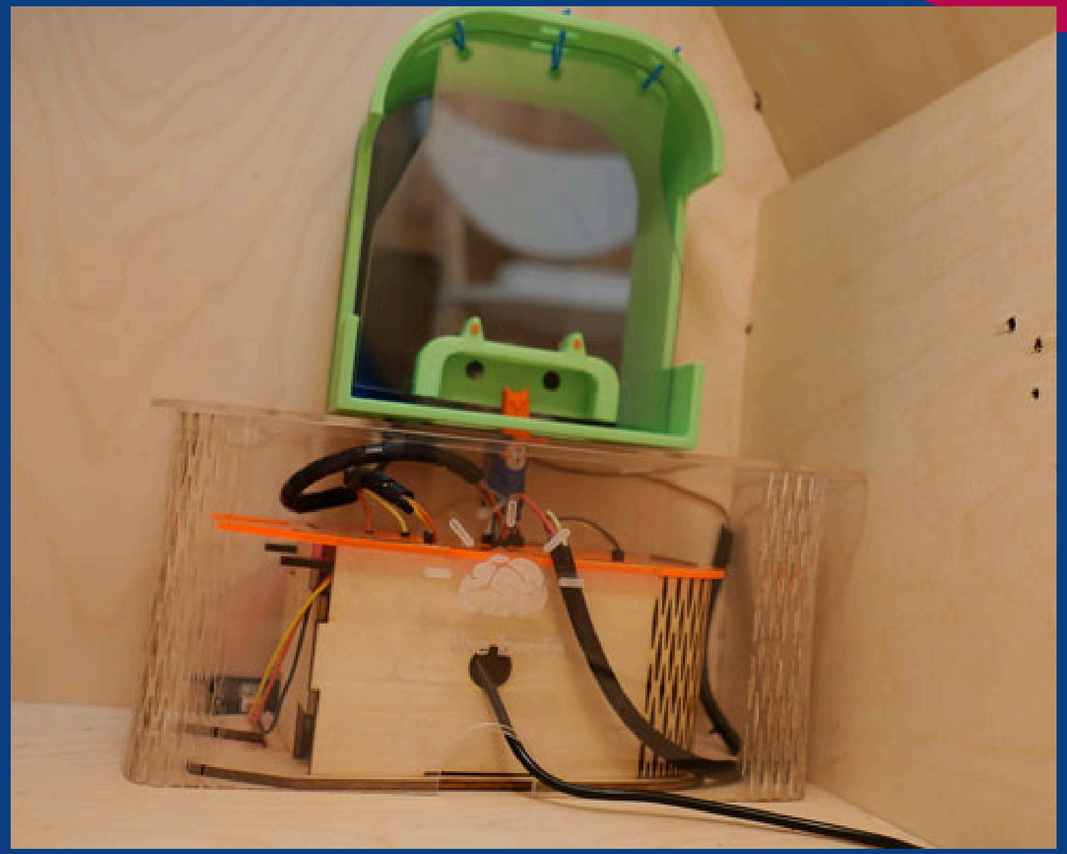
link to System integration page for 2026



What's Good? : System Integration

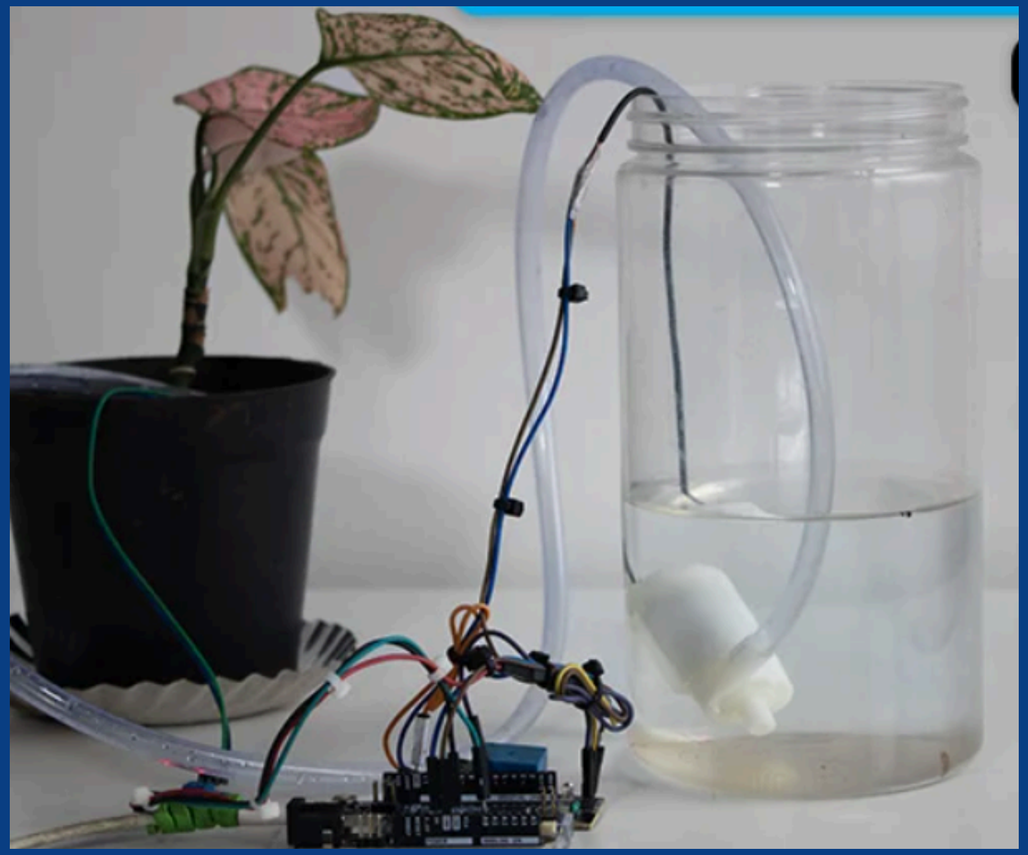
RFID Auto Lock system by Pamela





What's Good? : System Integration

Plant watering system by Nagi



What’s Good? : System Integration

Try to avoid...

- just a lasercut box for your final project.
- boards just fixed in a box with gluegun

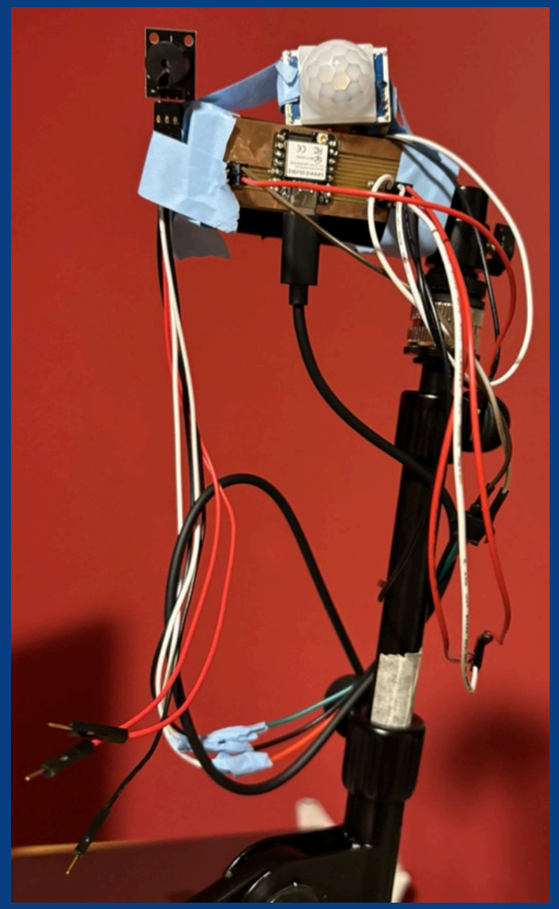
Instead...

- Design a your own encasing with purposeful holes, shape and material, with durability
- Plan and prepare a space for your boards, components and wiring

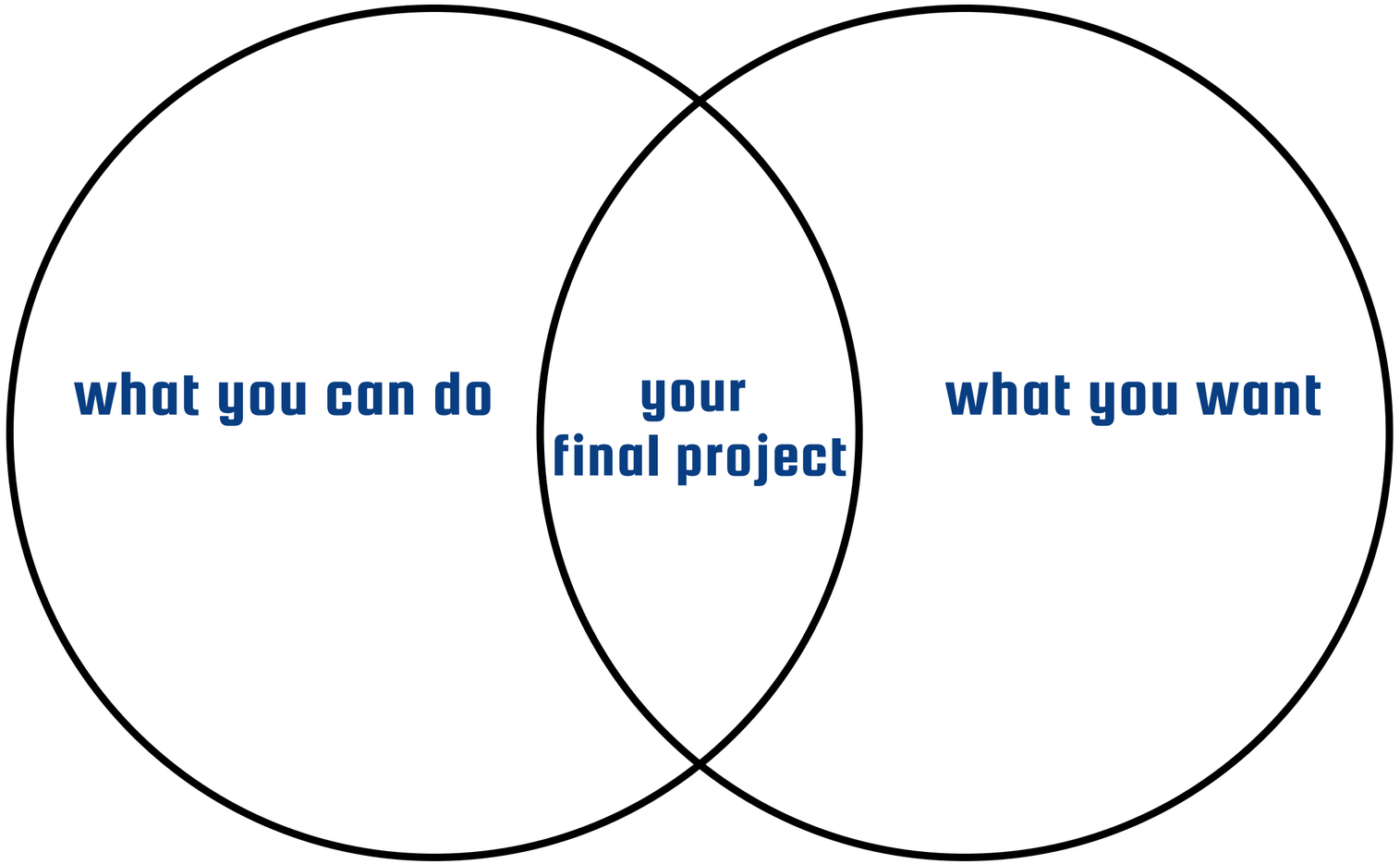
What's Good? : System Integration

BIG NO-NO

- Loose wires
- Tape and glue to hold your parts together
- Breadboard
- Copying other people’s work
- the project not working when it is time to present



What’s Good? : System Integration



What's Good? : expectations

TIPS

TIPS

1. Plan your final project NOW.
   Time management is key.
2. Work on your final project each week.
   You can make parts of your final project as your weekly assignment. !!! Document as you go!!!
3. Research plenty on different components and tools
   When you have time
4. Make the project more personal.