

FAB
ACADEMY
DAY 2

STUDENT
BOOTCAMP
2025





HOW TO MODEL (almost) anything

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Silvia Lugo

Fab Academy guru



Fab Lab CIDI



ELECTRONICS for noobs

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Tom Dubick

Fab Academy guru



Charlotte Latin Fab Lab



HOW TO USE **AI** in Fab Academy

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Luc Hanneuse

Fab Academy guru



AgriLab Fab Lab



What is a **FINAL PROJECT?**

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Miriam Choi

Fab Academy guru



EUROPE

THE FINAL COUNTDOWN

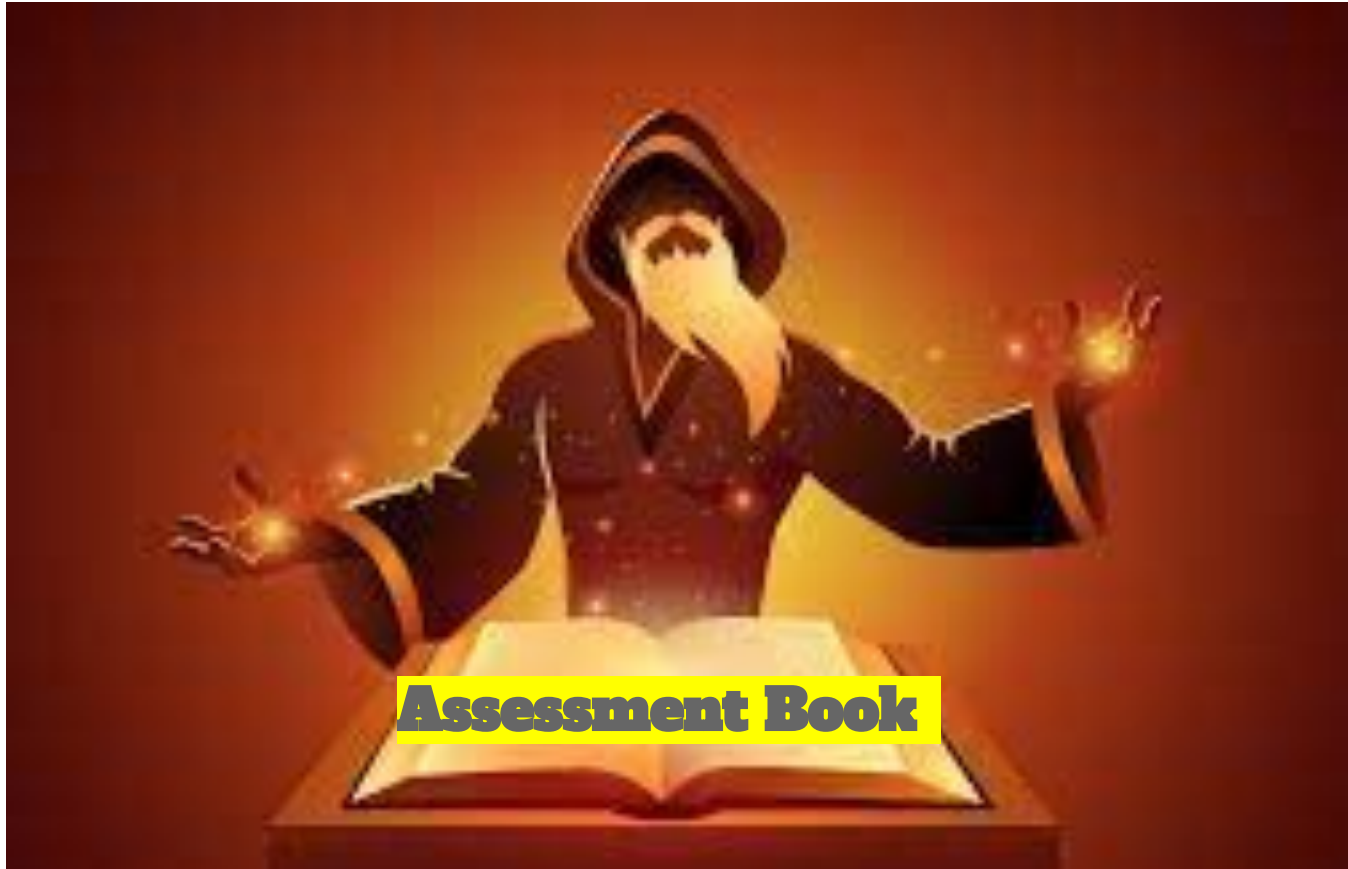


b/w ON BROKEN WINGS

A 7127

THE FINAL PROJECT

Remember that you can cast the spells in the holy book:



Assessment Book

DECIDE A FINAL PROJECT, AND STICK WITH IT

**How to Stick
With a
Project
(Long Enough
to Finish it)**

- MEET THE REQUIREMENTS
- IT'S AFFORDABLE IN TIME
- YOU WANT TO DO IT

REQUIREMENTS

- Incorporate 2D and 3D design
- Additive and subtractive fabrication processes.
- Electronics design and production
- Embedded microcontroller design, interfacing and programming
- **System integration and packaging**

Align your personal goals with the final projects requirements.

Motivation >> Success.

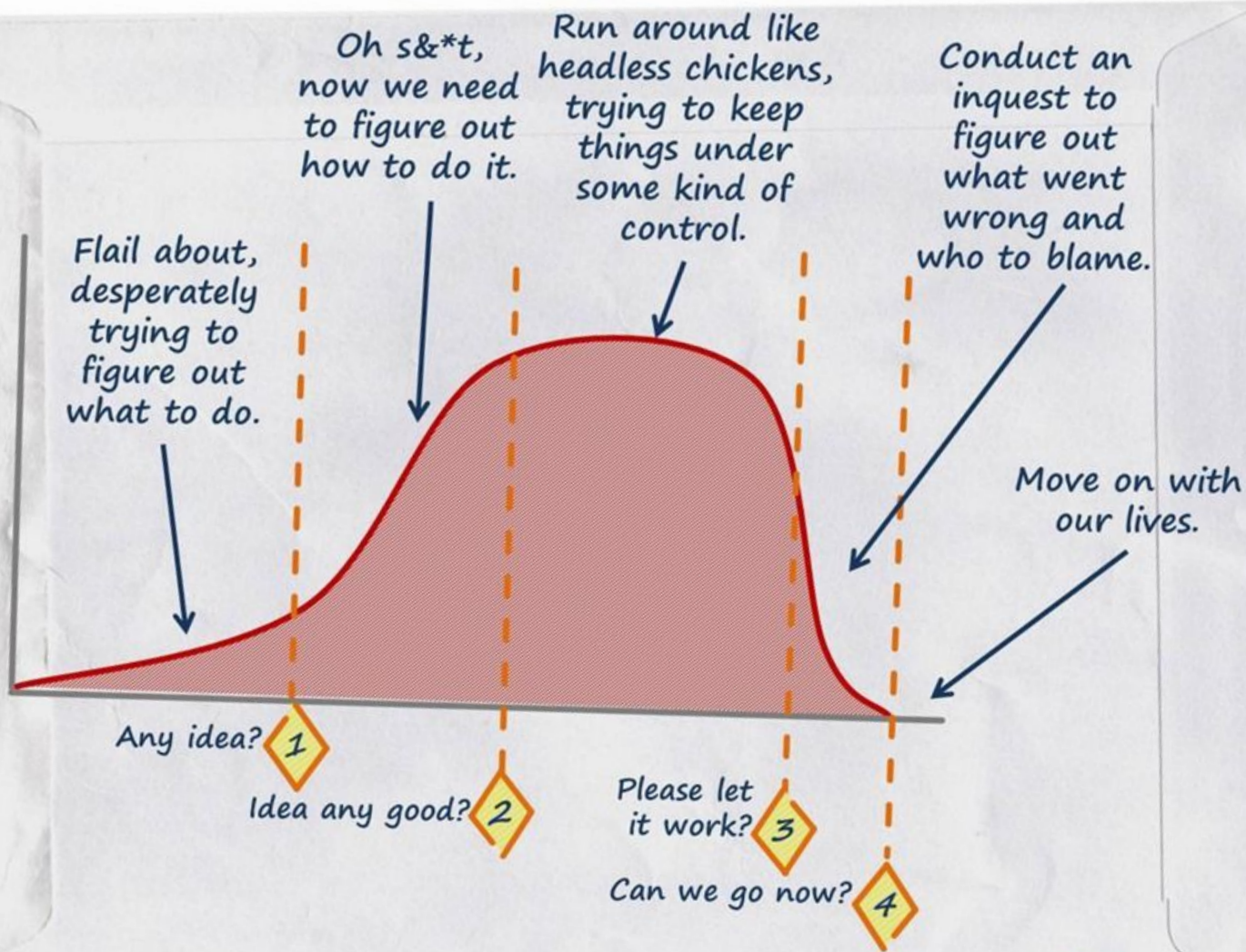
YOUR PROJECT IS YOURS
THIS IS MY PROJECT
THERE ARE MANY LIKE IT



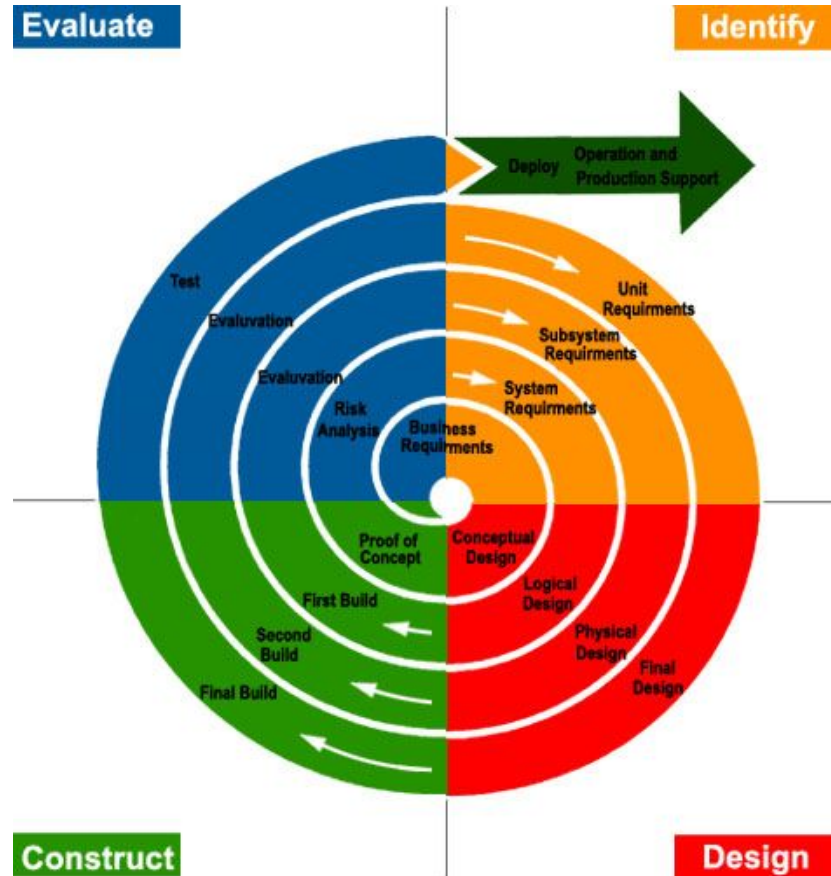
BUT THIS ONE IS MINE

KISS

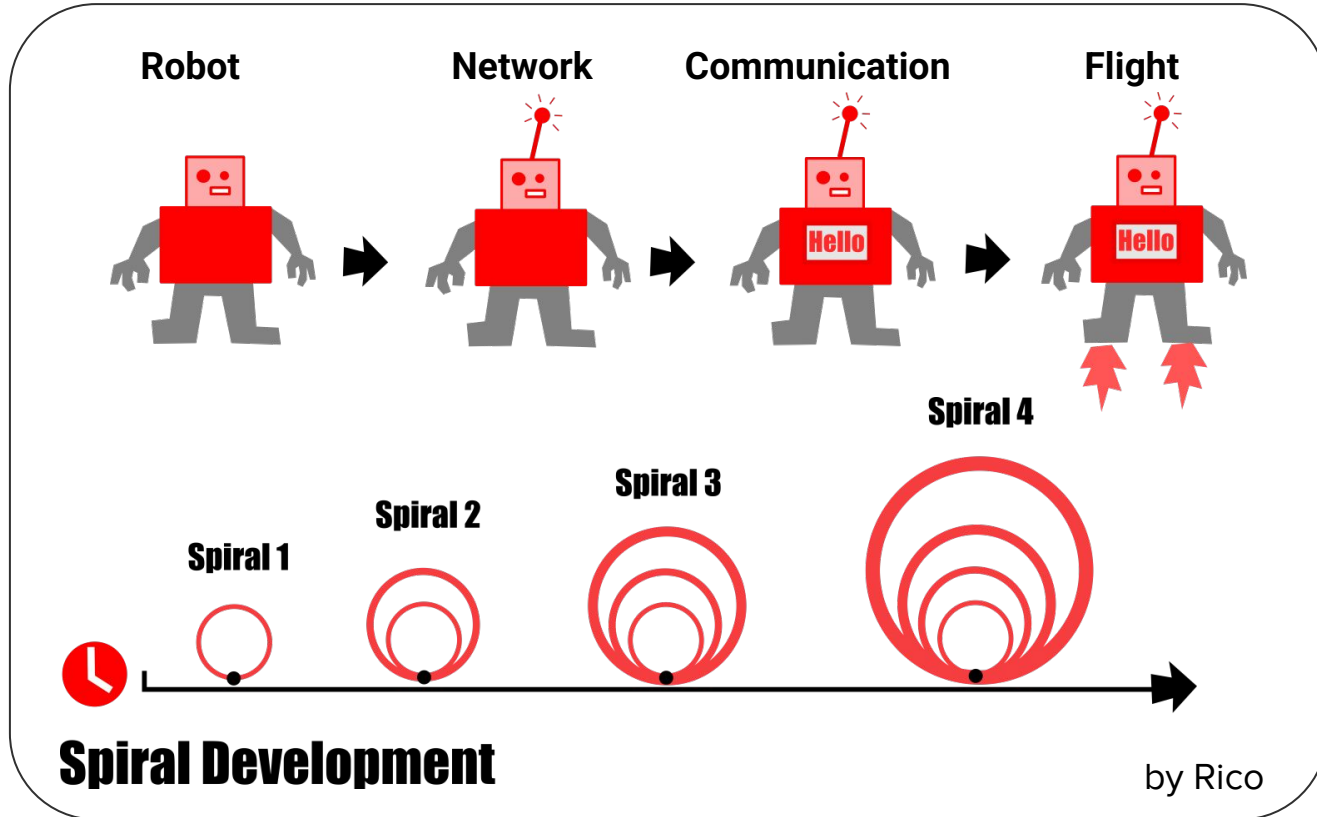
keep.it.simple.stupid.



KISS - SPIRAL DEVELOPMENT



KISS - SPIRAL DEVELOPMENT



When the final project is finish?
You will decide the scope and the objective of the final project, so you will be the one who decide when the project is finish...but



Final project: The Good, the Bad and the Ugly



THE GOOD ONE

- Simple (KISS)
- Clear Purpose (its clear what should do)
- Nice Designed (not a box)

**...it's your
objective.**



THE BAD ONE

- Complex
- Unclear Purpose
- Awkward Design

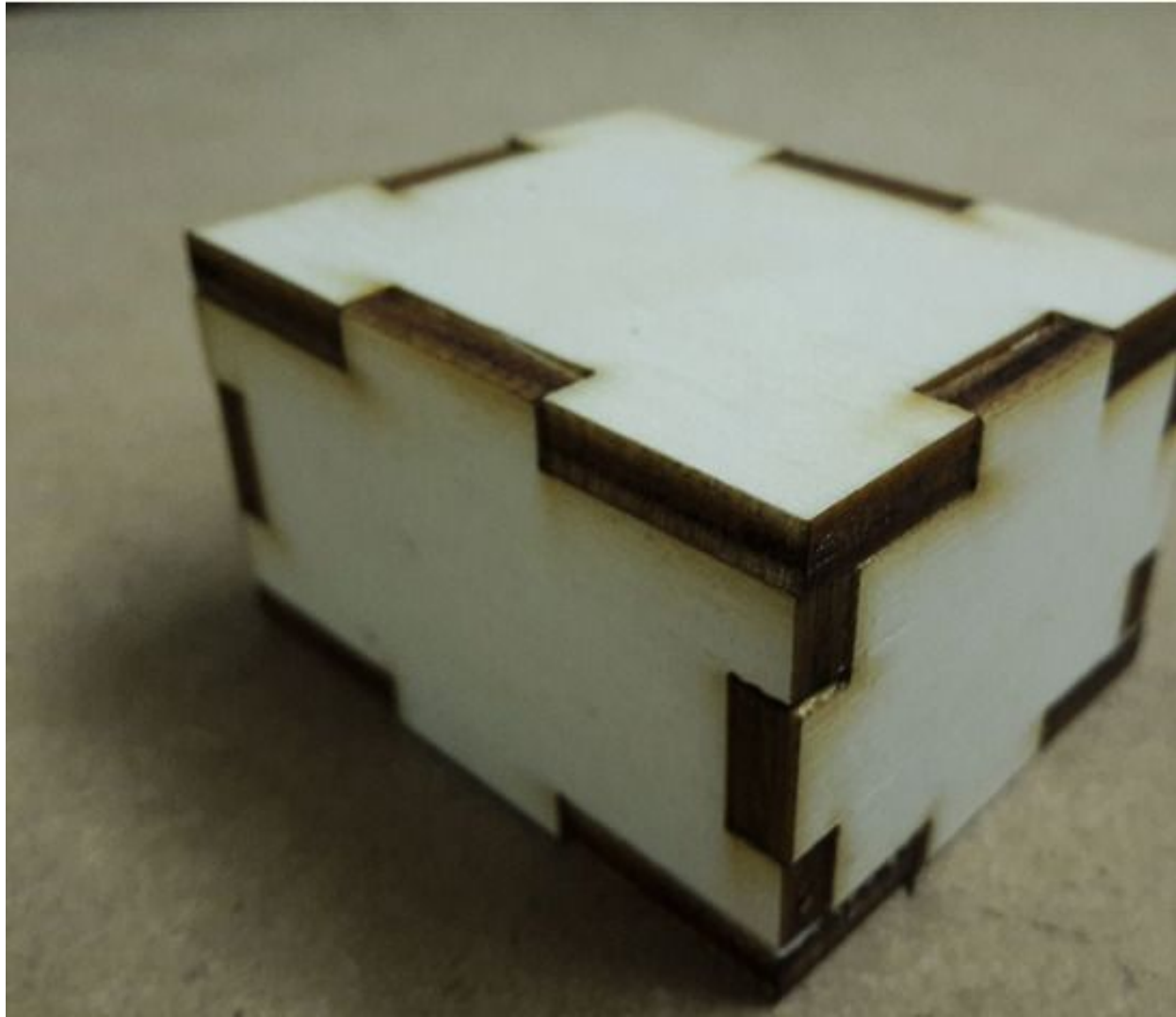
...but it still does what it's supposed to do.



THE UGLY ONE

- Doesn't Work
- Doesn't Meet Requirements
- Hard to watch

**...it does not
show your
mastery in
anything**



THE

WEEK

THE 10 COMMANDMENTS



1

Document as you go

Document your journey through the fab academy.

2

Time management



Could save your life

3

Spiral development

Focus on the spiral where you are.

4

Make things modular

Anything can fail, be ready to change it

5

Document what didn't work

You learn from the failures, and others can also

6

**Do what scares you as
soon as possible**

Maybe it's not hard as you imagine

7

Be proactive

Don't be a passive student, be active and participate.

8

Your documentation is the proof

It can be a game changer in the future

Give credits

Investigate, know what other have done and respect their work

You are not alone

Talk, ask, play, share and enjoy the rest of your mates
Fab Academy never ends.

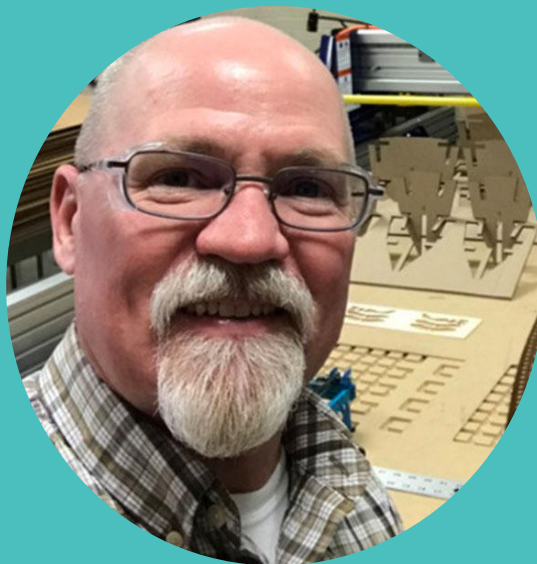


Last year alumni **EXPERIENCES**

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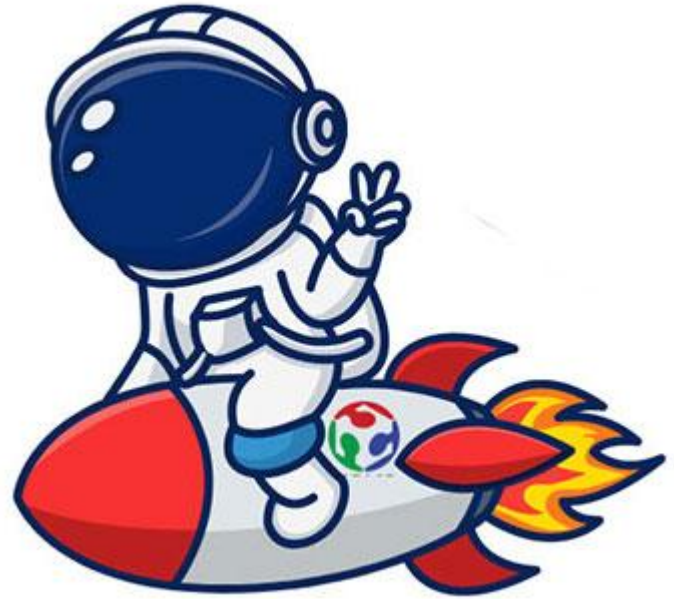


Angelina Yang
Fab Academy alumni

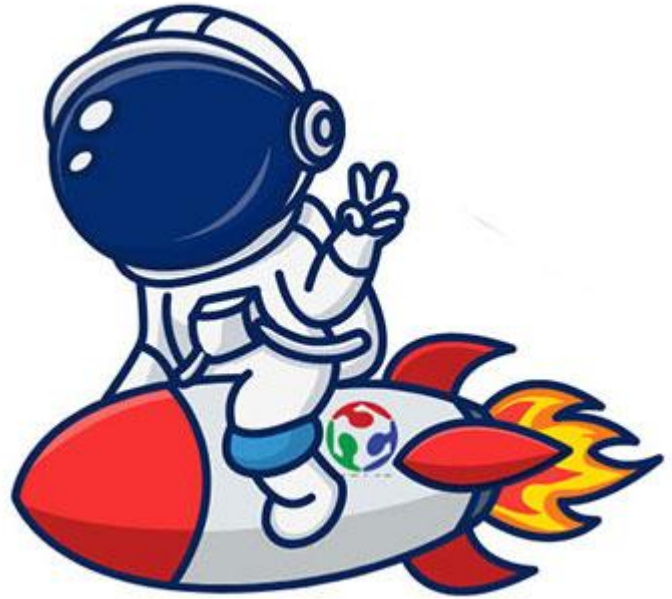


Jim Hart
Fab Academy alumni

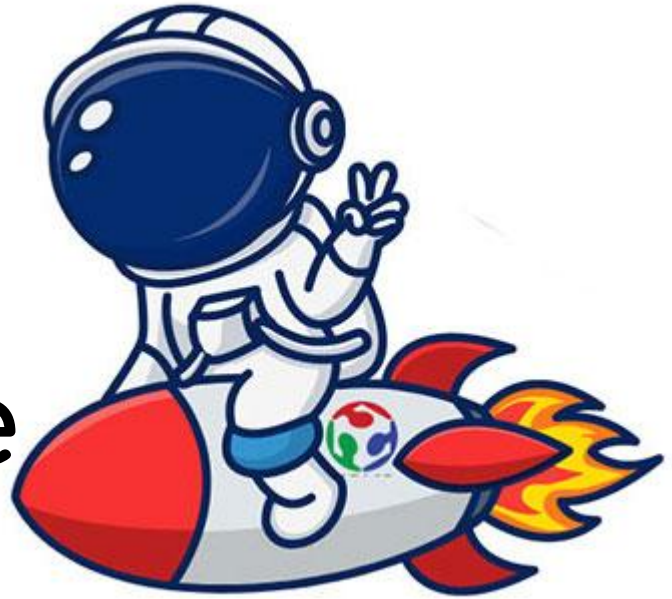
What a new Fab Academy student would need to know, according to your experience?



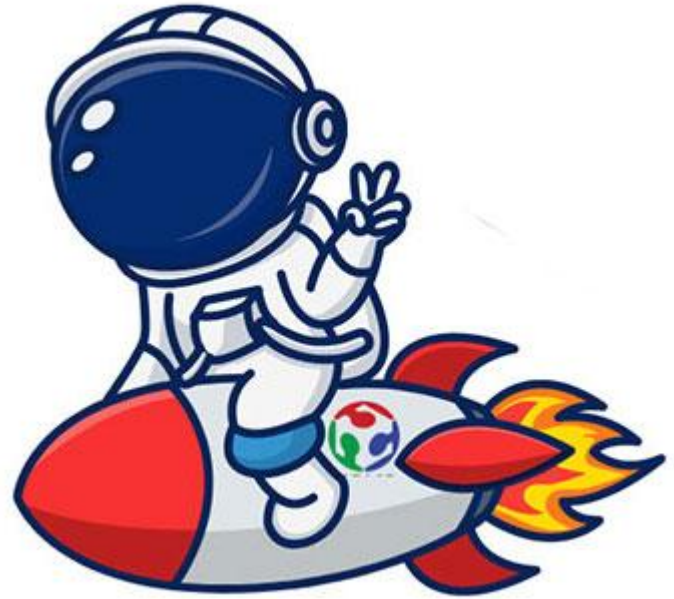
Would you like to
have learned or
known something
before starting
the fab academy?



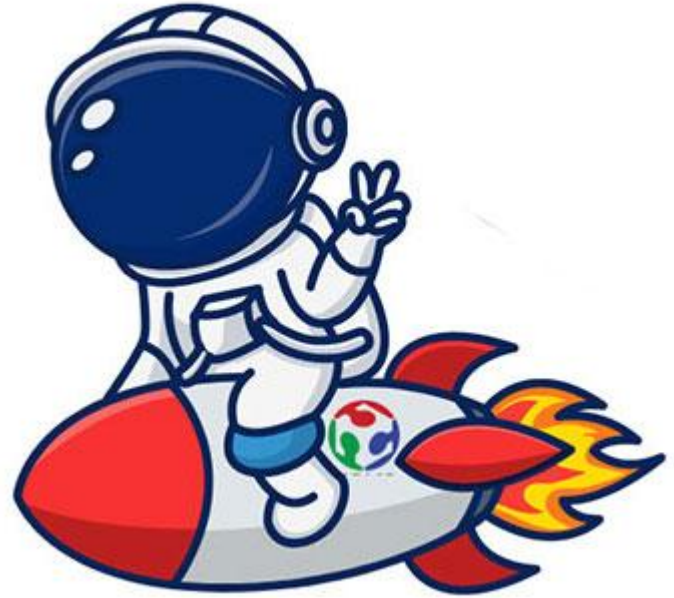
What has been
the biggest
difficulty for you
when finishing the
final project?



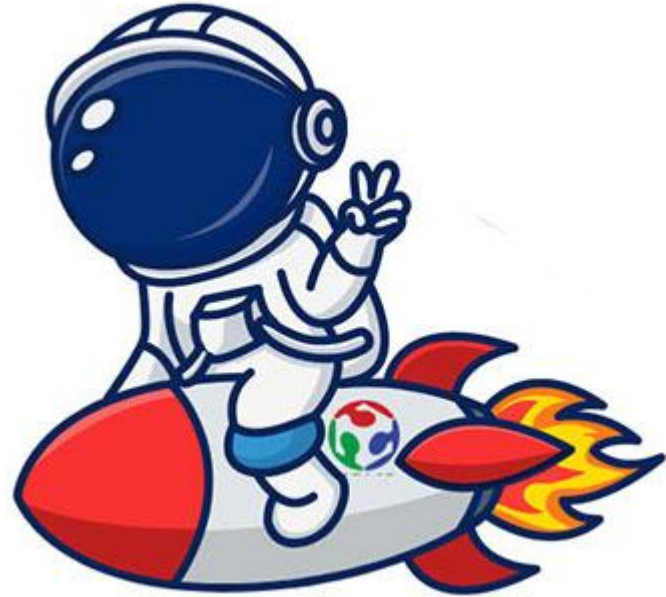
What do you
value most about
Fab Academy?



Has the fab
academy met
your
expectations?



Would you do the
fab academy
again?



enjoy your
JOURNEY

**see you tomorrow
at 9 oclock Boston Time**

**LEARN AT
FAB ACADEMY**

fabacademy.org

