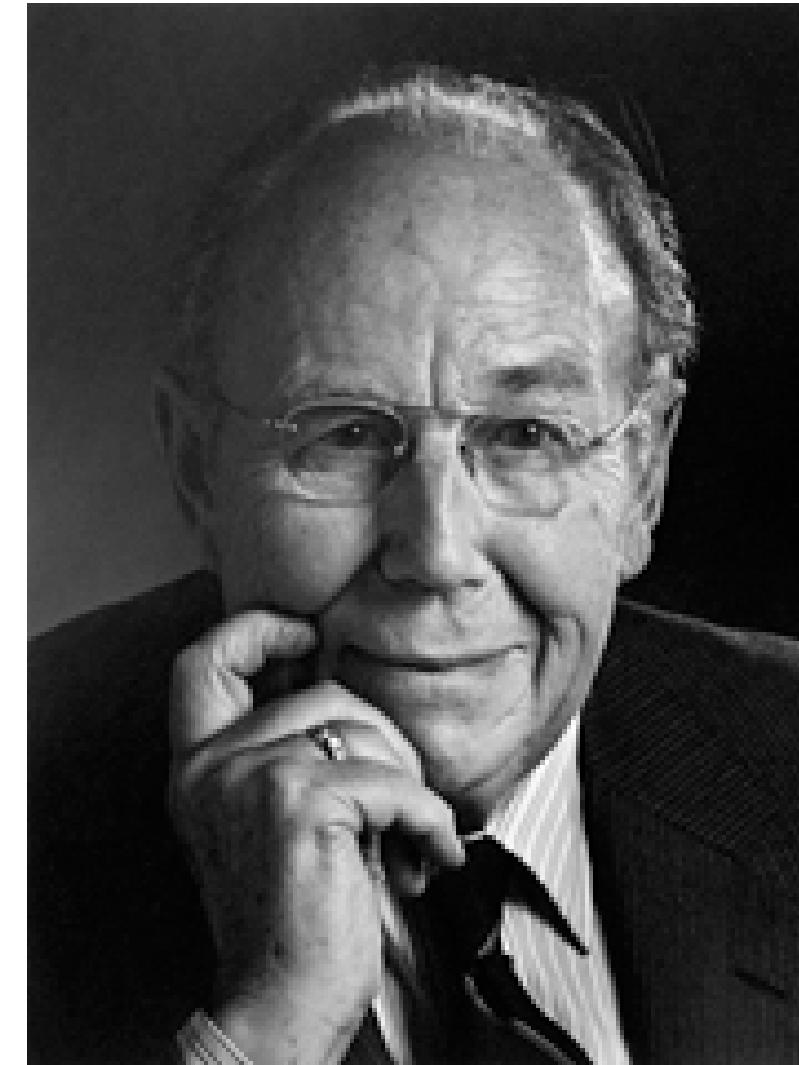
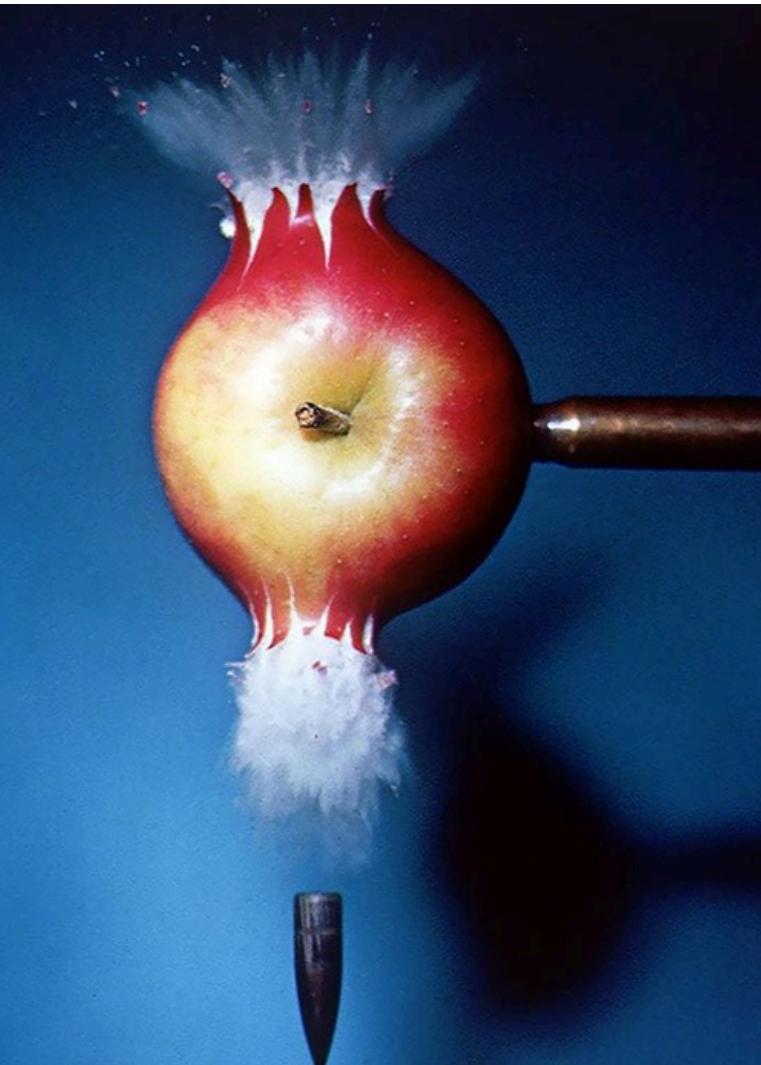


# **HOW STUDENTS CAN LEAD THEIR OWN EDUCATION**

**JOEL GARCIA & JULIA STEINBERG**

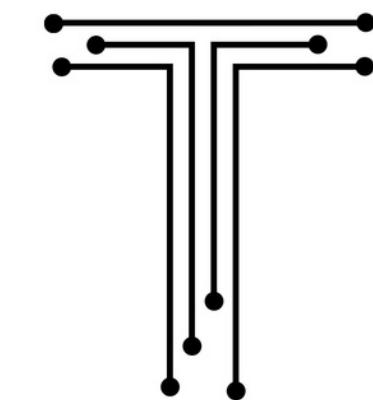


“

The trick to education is to teach people in  
such a way that they don't realize they're  
learning until it's too late.”  
Harold Eugene Edgerton.



MIT  
Edgerton  
Center



TECH PROJECTS



# TRADITIONAL SPANISH METHODS

- Emphasizes the theoretical part rather than practical one.
- Labs are guided, structured as a practical example of theory already presented in lectures.
- We experience mistakes as a penalty and a synonym of failure, not as a learning opportunity.

# OBJECTIVES

n° 1

We the students, are the protagonists of our own education. Creating a bond between us and the subject.

n° 2

We develop democratic values by listening to each other's ideas and learning to share our own without any judgement

n° 3

Helps us find what we are passionate about and finding a connection with our lives.



# HOW WE DO IT

Participants ideate and find a project they feel passionate about. In groups, they make it by developing skills and learning the necessary knowledge while meeting new people.

- Hackathon: Three-day Annual Event for ~120 students and ~12 schools (as of 2024).
- TechProject: Class taught at a High School in Barcelona. Over several months.



# WORLDWIDE CONNECTIONS



Boston, United States



Chihuahua, Mexico



Beijing, China



Buenos Aires, Argentina



Catalonia, Spain



Ferrara, Italia



Kassel, Germany



Valparaíso, Chile

# WHAT ARE PARTICIPANTS' EXPECTATIONS?

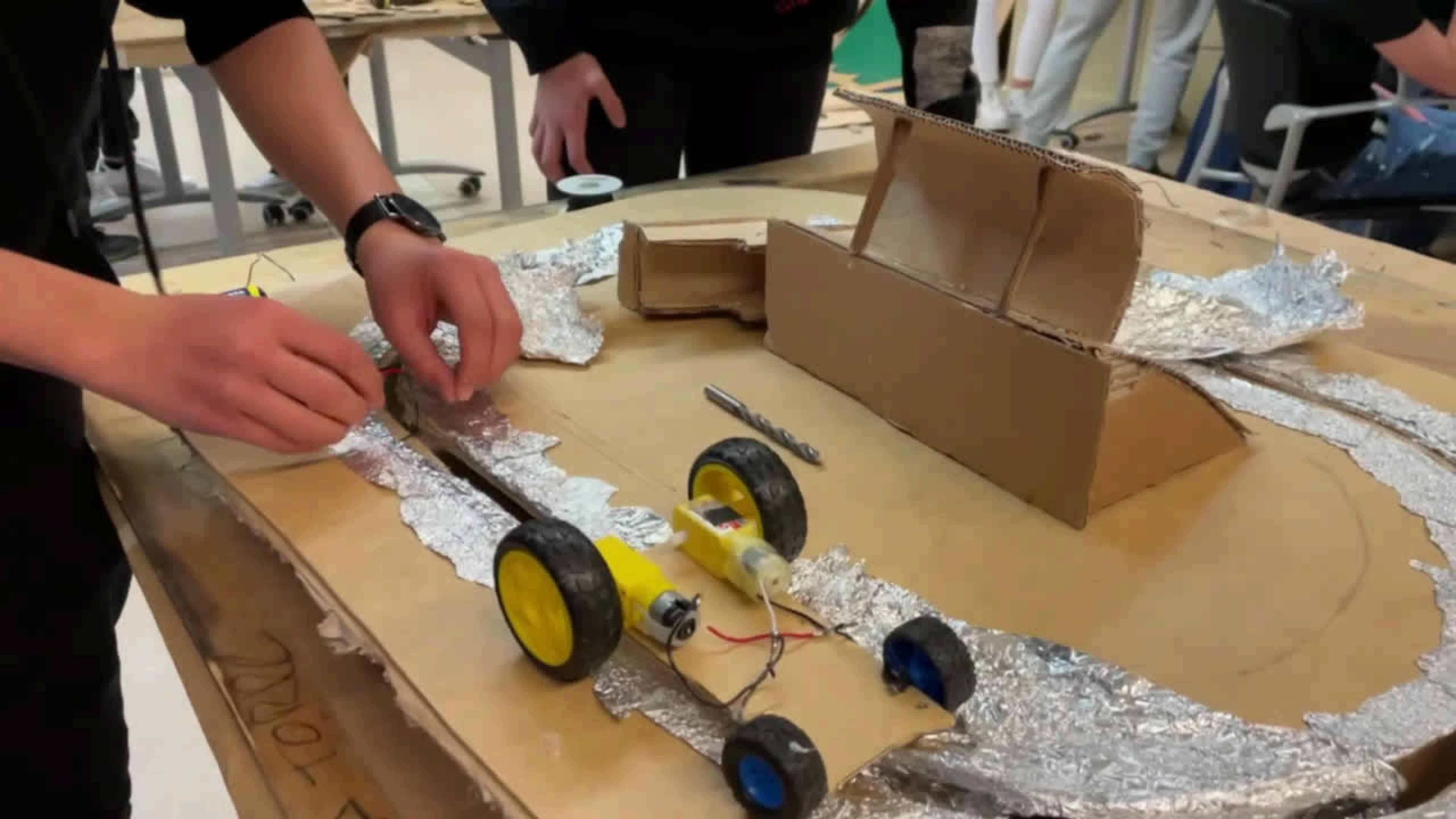
- Most participants expect learning something new (i.e. Programming, using electronics, ...), to “have fun” and to “meet new people”.
- Around 90% of participants said the expectations above were met after the hackathon.

Source: 2024 Hackathon Exit Survey





TECH PROJECTS



# IMPACT ON THE PARTICIPANTS

## WHAT DID YOU LIKE THE MOST?

“

That we did what we wanted, the mentors didn't tell us what to do so we could be creative. Also we have met new people and made friends.”



The people,  
building and the  
creative freedom.

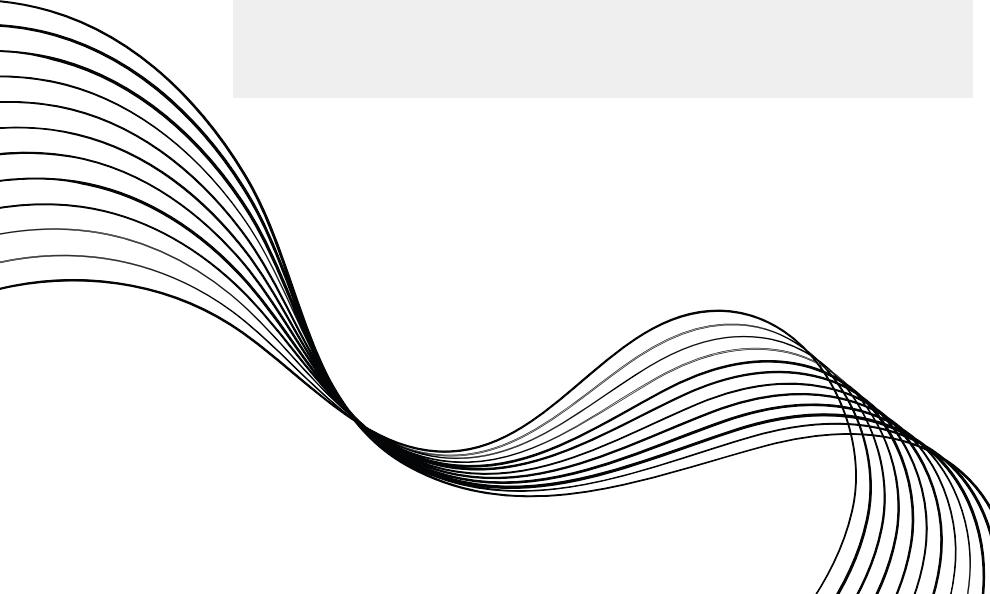
Cooperation.

Curiosity and  
imagination.

Expressing their  
opinion.

Increased  
confidence.

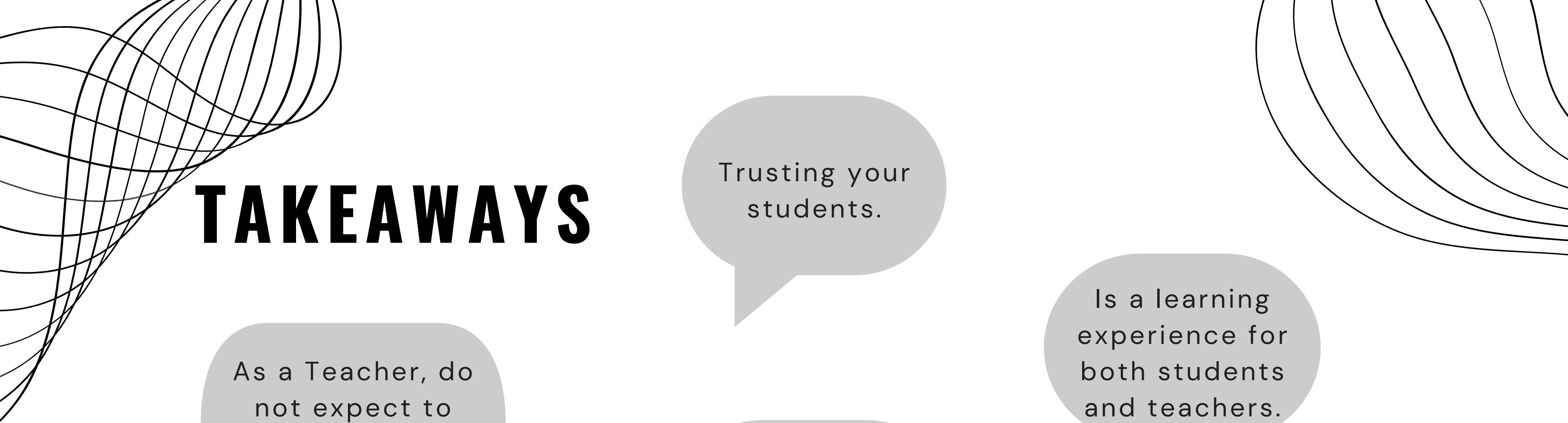
Independent  
learning.



# EXPORTING THE EXPERIENCE



- We encourage educators to run this workshops in their communities.
- The idea behind the hackathon is for exporting these to other schools.
- Twelve different schools take part on the hackathon, but we have more who also want to take part on it.



# TAKEAWAYS

As a Teacher, do not expect to have all the answers.

Be prepared for being unprepared.

Trusting your students.

Make multiple suggestions.  
Never impose or give a (only one) solution.

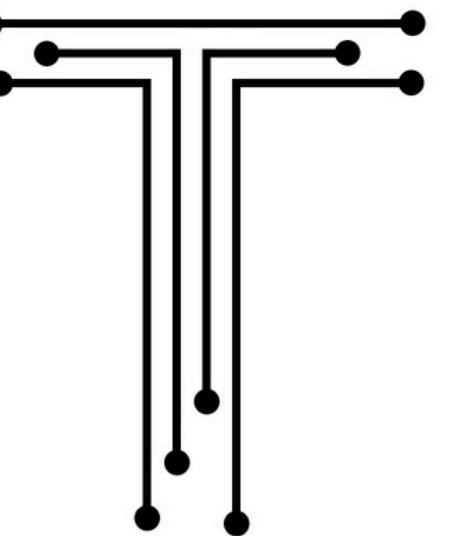
Is a learning experience for both students and teachers.

Teachers should adapt to their students.

*Alicia Lopez*

*email: aljornet@mit.edu*

*phone number: +34 619 76 26 60*



**TECH PROJECTS**

