

# Projets de Groupes

---

Imagine, design, code, promote

**PDG 2018**

**Olivier Liechti**

<https://t.me/joinchat/CPPWmBGA2P5odjFmkwnrWQ>

# Goals



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD  
[www.heig-vd.ch](http://www.heig-vd.ch)

## **Create something interesting and valuable**

You pick the topic you want to work on.

## **Build something as a team**

Apply agile development principles and techniques.  
It is not only about having running demo.

## **Search for information and read**

You are used to use technical documentation, but you also need to read about software engineering, agile techniques, etc.

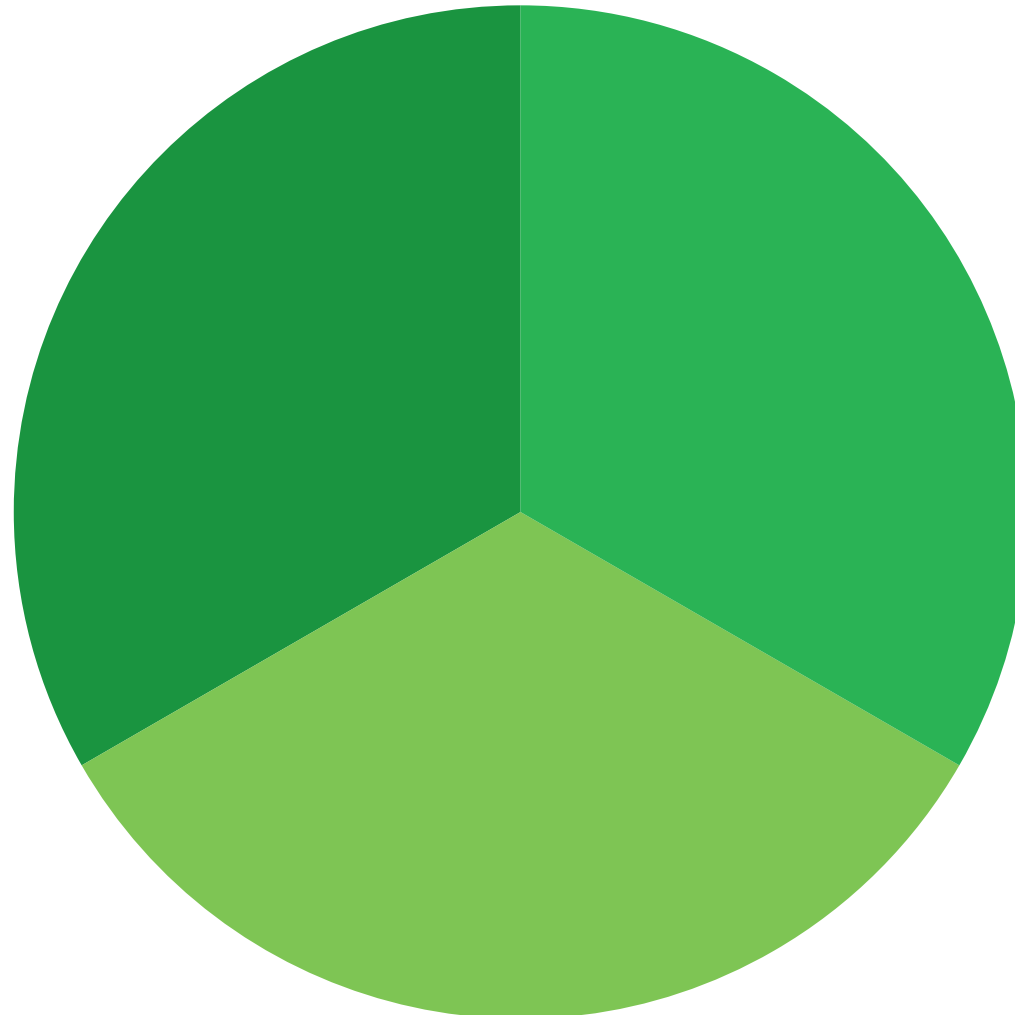
## **Build something to be proud of**

To get a job, having a solid project in your portfolio is more important than a grade.

# Dimensions

## Product

What it does,  
and how you  
“sell” it



## Technology

How you build  
the system  
(design, code,  
integration)

## Quality

External and internal quality

# Inspiration

heig-**vd**

HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD

www.heig-vd.ch

Get Inspiration Help

« What good is an idea if it remains an idea? Try. Experiment. Iterate. Fail. Try again. Change the world. »  
— Simon Sinek

## Get Inspiration OSX

Never miss motivation and inspiration again !

↓ GET YOUR INSPIRATION

💡 WATCH DEMO

Mentor Reka

Hey there 🙋  
Questions? Suggestions? 🗨️  
Please ask! I'm not a robot 🤖

Mentor

Type your message...

Chat ⚡ by Drift

↓

# Constraints

## **Open source**

Release your code as open source:

Whole team can use it later + access to free tools.

## **Document goals before each iteration**

Write down what the team aims to achieve

Write down what every member commits to do

## **Use GitLab**

Manage code, track activities, setup build pipelines.

Everything that you do is an issue (with code and/or documentation, commits, comments, MR).

# Roles in your teams



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD  
[www.heig-vd.ch](http://www.heig-vd.ch)

## Product owner

What do we want to build? Why? How do we share our vision, attract users and give them value?

## Software engineer

How do we build it? What is the architecture of our system? What technologies should we use?

## Agile engineer

How do we organize ourselves to deliver something valuable on a regular basis? How do we ensure internal and external quality?

# Planning



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD  
[www.heig-vd.ch](http://www.heig-vd.ch)

Week #	
1: 29.09.2018	Define groups, pick topic, brainstorm, setup GitLab
2: 06.10.2018	Define and document objectives for demo 1
3	
4	
5	
6: 03.11.2018	Demo 1 + Review - Define objectives for demo 2
7	
8	
9	
10	
11: 08.12.2018	Demo 2 + Review - Define objectives for final demo
12	
13	
14	
15	
16: 26.01.2019	Demo day



**In the next demo, we want to achieve:**

- Product: ...
- Technology: ...
- Quality: ...

**Bob commits to:**

**Alice commits to:**

**John commits to:**

**Barbara commits to:**



# Ideas



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD

[www.heig-vd.ch](http://www.heig-vd.ch)

# Web scraping



Vincent Guidoux

# Unity “something”



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD  
[www.heig-vd.ch](http://www.heig-vd.ch)



Adrien Allemand, Nathan Flückiger,  
Mika Pagani, Loyse Krug

# Campus Card

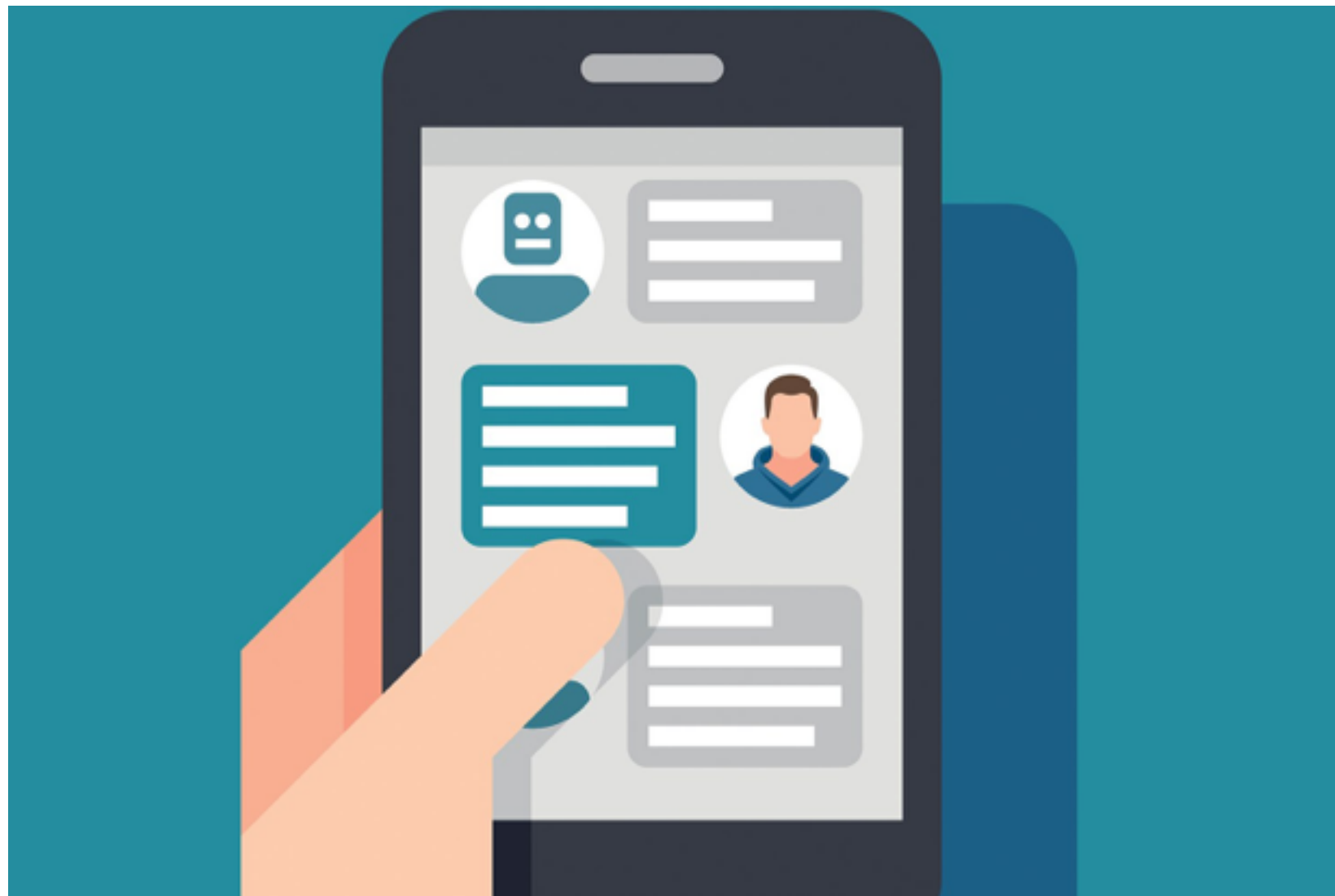


Daniel Gonzalez Lopez, Bryan Curchod,  
François Burgener, Héléna Line Reymond

# Migbot: a teaching assistant for RES-2019



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD  
[www.heig-vd.ch](http://www.heig-vd.ch)



# Crowdsourced learning challenges



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD  
[www.heig-vd.ch](http://www.heig-vd.ch)



# resoverflow

# Alexa in meetings



<https://www.salesforce.com/video/1778164/>



# Alexa helps agile remote teams



# Help teams make and keep track of decisions



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD  
[www.heig-vd.ch](http://www.heig-vd.ch)



Brian Armstrong

Follow

Co-Founder and CEO at @Coinbase. Building an open financial system for the world. Join us:

<https://www.coinbase.com/careers>

May 9 · 9 min read

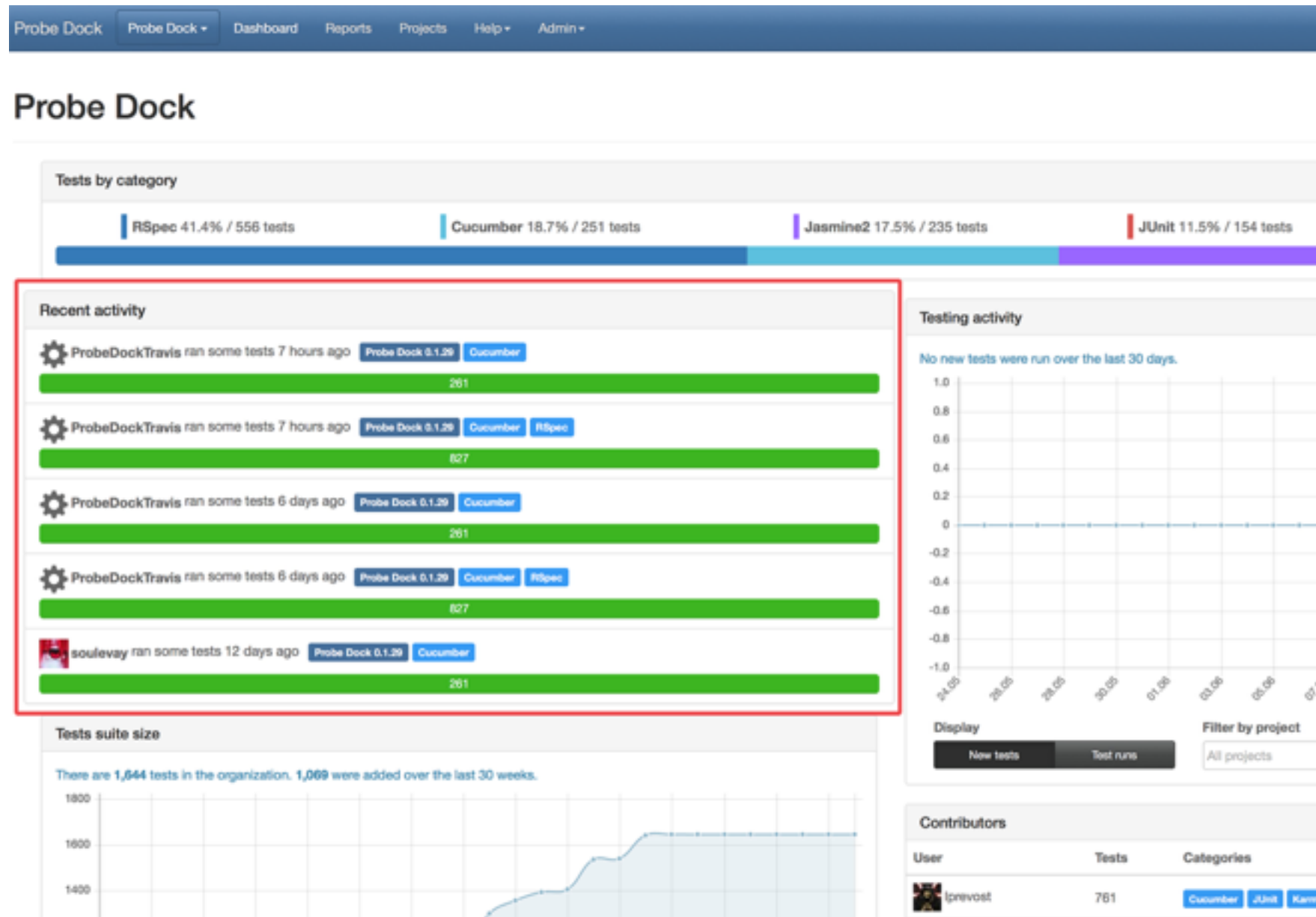
## How we make decisions at Coinbase

In this post, I'll share a framework we've developed at Coinbase that helps us make decisions more effectively. Our core values include Clear Communication and Efficient Execution. This framework is an example of how we operationalize those values.

# Probe Dock NG



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD  
www.heig-vd.ch

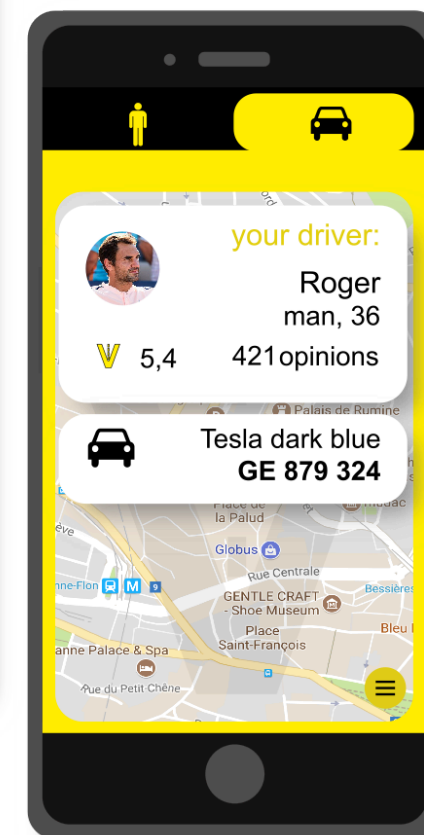
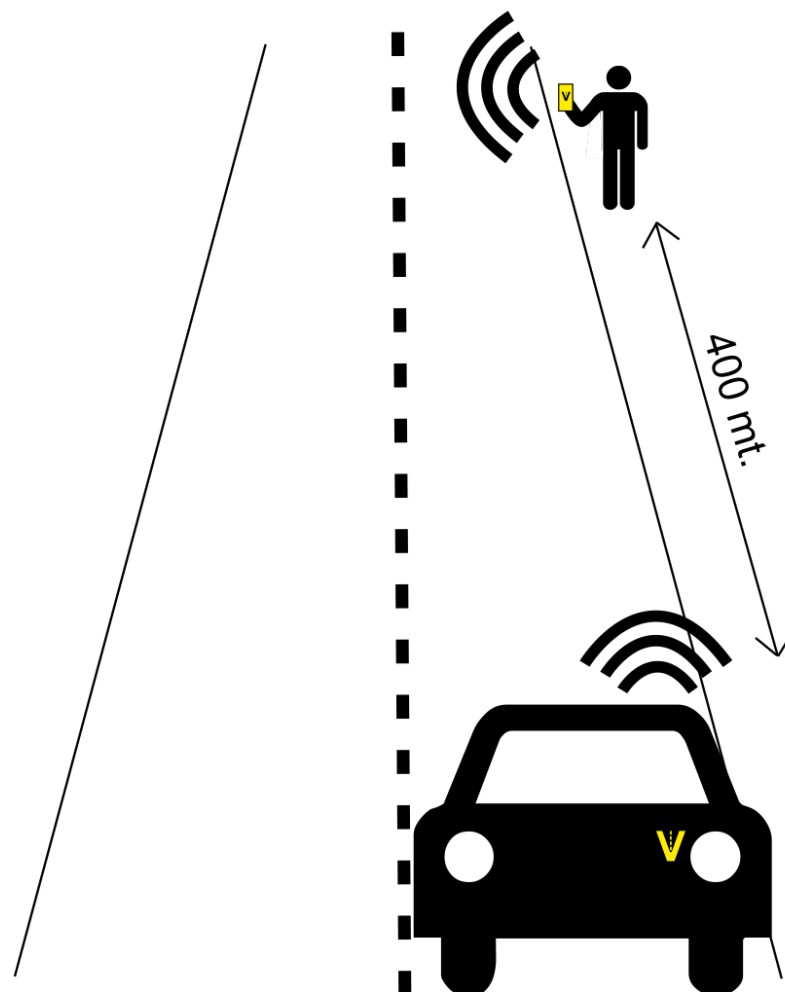


# Viktor



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD

[www.heig-vd.ch](http://www.heig-vd.ch)



# Questions



HAUTE ÉCOLE  
D'INGÉNIERIE ET DE GESTION  
DU CANTON DE VAUD  
[www.heig-vd.ch](http://www.heig-vd.ch)

What is your **long-term vision for the product**?

What is **a first step towards that vision**, that you could achieve during one semester?

How do you define “**quality**”? What do you need to do to “bake” quality in your product and processes?

How do you get started with **GitLab**? What is your first structure and workflow?

How do you describe your project vision on an attractive **web site**?