

Week 8

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Announcement

Upcoming Important Dates:

- Last purchase day: **Nov. 14;**
 - Use the same spreadsheet;
- Pre-demo checkpoint: **Nov. 21;**
- Final poster: due **Nov. 28** (sent for print);
- Public Presentation: **Dec. 4 at 13h – 20h;**
- Final in-class Technical Presentation: **Dec. 12**, starts at 8h15 (LAST IN-PERSON CLASS)
- Final report submission due on **Dec. 19** by 8h15 (ONLINE CLASS)
 - NO LATE SUBMISSION

Equipment, parts, and tools

- Return on **Dec. 12** (Last in person class)
- Tackle box;
- Any equipment/tools/parts;
- Hand in Prototypes

In preparation for the demo presentation

- **More people** than you expected;
- Audience from different background/age...;
- **Very limited time:** your presentation should be less than **3 mins**;
- **Divide the tasks by who presents which part**, NOT by who reads which page;
- Background videos/ slides/posters **do not** need you to explain;
- Demo presentation is **not a journal**;
- **Clean and tight** presentation;
- Be prepared for **unforeseen** circumstances;
- **Show rather than tell**;
- Use simple, everyday language;

Demo Presentation V.S. In-class Presentation

Demo Presentation

- **Audience:** General Public (all ages and backgrounds)
- **Duration :** 3 mins max;
- **Goal:** Show the value and impact of your device as fast as possible;

Few questions should be answered:

- What can the device do?
- Why I as an audience need this?
- Why your approach is different?

Show rather than tell;

Focus more on functionalities;

Use simple, everyday language;

Avoid technical terms;

In-class Presentation

- **Audience:** Peer Students and TAs
- **Duration:** 15mins
- **Goal:** Comprehensive demonstrations of your project;

Questions should be answered (but not limited to):

- Advantages over existing solutions?
- Performance metrics (speed/force/torque...) can your device achieve in order to accomplish the desired function?
- Prove it with data.

Comprehensive and Scientific Languages

Preparing the Device in next 3 Weeks

1. Solidify the demo scenarios;
2. Complete initial prototype development
 - Focus on implementing core functionalities;
 - Make sure basic features meet specified goals/metrics;
3. Refine the prototype
 - Think about how the device can be modified for demo;
 - Key measurements to be presented?
 - Interactive features to enhance presentation?
 - Develop data collection methods to validate performance goals (will be in your final report and technical presentation)

EPFL 1-to-1 session

- No class on Nov 14th
- In stead, will have 1-to-1 sessions in that week
- Please fill up your group availability through [when2meet](#) link

Guidelines for the 1-to-1 session

20min presentation + 25 min Q&A

Your presentation will need to cover:

- What is the objective of your project?
 - Your plan on quantify the objective (KPI)
- What is the function of your device?
- What is the state of the art?
 - What is the missing gap? What challenge in the SoA are you addressing?
 - In what quantitative way (KPI) will you demonstrate that you have filled the gap?
- What is your technical approach for achieving those functions?
 - How many degrees of freedom (DoF) are required?
 - How do you plan to actuate?
 - How will you close the loop? (input and output?)
- What experiments will you run to collect data that validate the KPIs?
- How will you demo this on public demo day?
 - Data? Video? Audience interactions?
- What data/plots will you show in the final technical report?
 - What are the X and Y axes (with units) of your plots?

Next Week

- Try the demo format presentation for next week presentation;
- Follow the format on Moodle;