

# Advanced projects



## Presentation

During the first semester of the second year of the IMDEA programme (semester 3), students have to do a project from September to December (defence beginning of January).

This project is done in collaboration either with a company or with a public laboratory.

This project should include:

- \* Literature review
- \* Analytical model of the system AND / OR
- \* Numerical simulation (Matlab or equivalent) of the system AND/OR
- \* Numerical model of the system (FEM, BEM) AND / OR
- \* Experiments performed on the system

If you are working in a company and if you are interested in studying a new concept (simple feasibility study), please [✉ contact us](#).

## Student's work

Only the public projects are presented here (the projects done in collaboration with a company are not given).

## AES publications

- \* Cadavid, J., & Novak, A. (2019, March). [Practical Problems in Building Parametric Loudspeakers with Ultrasonic Piezoelectric Emitters](#). In Audio Engineering Society Convention 146. Audio Engineering Society.
- \* Kakonyi, B., Abdul Jaleel, R., & Novak, A. (2018, May). [Balloon Explosion](#). In *Audio Engineering Society Convention 144*. Audio Engineering Society.

## Reports and presentations

- \* 2021 [Link to projects](#)
- \* 2020 [Link to projects](#)
- \* 2019 [Link to projects](#)
- \* 2018 [Link to projects](#)
- \* 2017 [Link to projects](#)
- \* 2016 [Link to projects](#)