

Project Title

Smart Companion Pillow



Sponsors

**DEE**Departamento
de Engenharia
ElectrotécnicaInstituto Superior de
Engenharia do Porto**P.PORTO**Departamento de
Física

Instituto Superior de Engenharia do Porto

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Supporters



Project Summary

The goal is to design, build and test a pet-like pillow to provide company, monitor, interact and stimulate individuals, following sustainable and ethical practices. The purpose, target user segment and the full set of device requirements are to be defined by the team based on the [state of the art](#), [marketing](#), [sustainability](#) and [ethical](#) analyses.

The project requirements are:

1. Use or reuse low cost hardware solutions;
2. Comply with the following EU Directives:
 1. Machine Directive ([2006/42/EC 2006-05-17](#));
 2. Electromagnetic Compatibility Directive ([2004/108/EC 2004 12 15](#));
 3. Low Voltage Directive ([2014/35/EU 2016-04-20](#));
 4. Radio Equipment Directive ([2014/53/EU 2014-04-16](#));
 5. Restriction of Hazardous Substances (ROHS) in Electrical and Electronic Equipment Directive ([2002/95/EC 2003-01-27](#));
3. Mandatory adoption and use of the International System of Units ([The NIST International Guide for the use of the International System of Units](#))
4. Use open source software and technologies.

Maximum budget to build a prototype: 100.00 €

Participants

Institution: Instituto Superior de Engenharia do Porto (ISEP)

Team N.: 4

Students:

- Alexandre Reis;
- Elien Gielen;
- Ko Wopereis;
- Marcel Pasternak;
- Tobias Schneider;
- Vaido Sooäär.

Panel of Supervisors:

- Abel Duarte (ajd 'at' isep 'dot' ipp 'dot' pt);
- Jorge Justo (jfg 'at' isep 'dot' ipp 'dot' pt);
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Utilities

- [DokuWiki Syntax](#)
- [Videos on how to use DokuWiki](#)

Acknowledgements

- Teachers and Supervisors who did their very best to the success of this project.
- Sponsors: **A Central da Borracha** (pillow foam); **Departamento de Engenharia Electrotécnica (DEE)**, ISEP (electronic components); **Departamento de Física (DFI)**, ISEP (electronic components); **Flexitex** (pillow and sock cover), **Molarte** (zippers, velcro and labour to build the pillow); **Laboratório de Sistemas Autónomos (LSA)**, ISEP (raw material and the use of a 3D printer); **SOLIUS** (electronic components).
- Supporters: **Citeve** (technical support on advanced textiles); **Fibran** (pillow thermal insulation board); **LMA** (waterproof but not airproof textile to protect the electronic components of the pillow and the sock from spillage of liquids).
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- Prof. João Correia Lopes, Departamento de Engenharia Informática (DEI), Faculdade de Engenharia da Universidade do Porto (FEUP) (wiki template)

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