

Project Title

Aquaponics System

Sponsor



Project Summary

The goal is to design and build an acquaponics system that combines fish culture and plant growing, without soil, supported by water recirculation. The system must be as sustainable as possible and monitor parameters such as temperature, flow, conductivity, pH or dissolved oxygen.

The project requirements are:

1. Reuse existing components or use low cost hardware solutions;
2. Use open source and freeware software;
3. Comply with the following EU Directives:
 1. Machine Directive ([2006/42/CE 2006-05-17](#));
 2. Electrical Safety: Low Level Voltage Directive ([2006/95/CE 2006-12-12](#));
 3. Restriction of Hazardous Substances (ROHS) in Electrical and Electronic Equipment Directive ([2002/95/EC 2003-01-27](#));
4. Mandatory adoption and use of the International System of Units ([The NIST International Guide for the use of the International System of Units](#))
5. Use open source technologies.

Participants

Institution: Instituto Superior de Engenharia do Porto

Team N°: 5

Students:

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- Anna Mesas Llauradó
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Utilities

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

Acknowledgements

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