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| TITLE | Acquaponics System |
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|                                                                                    |      |                     |      |  |       |
|------------------------------------------------------------------------------------|------|---------------------|------|--|-------|
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| SHORT DESCRIPTION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Objective         | Design and build an aquaponics 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.                                                                                                                                                                                                                                                              |
| Requirements      | <ul style="list-style-type: none"> <li>– Reuse existing components or use low cost hardware solutions;</li> <li>– Use open source and freeware software;</li> <li>– Adopt the International System of Units (<a href="#">NIST International Guide for the use of the International System of Units</a>);</li> <li>– Be compliant with the Machines Directive (<a href="#">MD</a>), Low Voltage Directive (<a href="#">LVD</a>) and Restriction of the use of certain Hazardous Substances (<a href="#">RoHS</a>) Directive.</li> </ul> |

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| RELEVANT DATA            |
| Maximum budget: 250,00 € |

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| RESOURCES               |
| Water pump is available |

EUROPEAN PROJECT SEMESTER – EPS@ISEP  
PROJECT DESCRIPTION

**Project:** P02  
**Semester:** Spring 2014

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| CLIENT | Abel José Duarte (AJD) |
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