




TITLE	Modular LED lamp
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SHORT DESCRIPTION	
Objective	<p>Design, and prototype development of a modular LED lamp compatible with actual lamps</p> <p>The idea behind this project proposal is the development of a “Light Bulb” that is fully constituted by light emitting diodes (LED).</p> <p>The set of LED should be assembled in this “Light Bulb” in such a way that it is totally compatible with present day lamp bushings, either mechanically and electrically.</p> <p>Furthermore it should be possible to replace only one LED at a time in order to have a real low cost and long duration “Light Bulb”. This implies that there should be an easy way to detect which LED is damaged and an easy way to replace it.</p> <p>Considering the design, it could be possible to assemble all LED of the same colour or having distinct coloured LED in order to give different colour tones to the “Light Bulb” and to the environments where it will be used. The geometry of the “Light Bulb” could also vary, according to the target market niche that is intended to attain.</p>

EUROPEAN PROJECT SEMESTER – EPS@ISEP
PROJECT DESCRIPTION

Project: P08
Semester: Spring 2014

Requirements	<ul style="list-style-type: none">– Reuse provided components or low cost hardware solutions;– Use open source and freeware software;– Adopt the International System of Units (NIST International Guide for the use of the International System of Units);– Be compliant with the Machines Directive (MD), Low Voltage Directive (LVD) and Restriction of the use of certain Hazardous Substances (RoHS) Directive.
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RELEVANT DATA

Maximum budget: 250,00 €

RESOURCES

ACADEMIC SUPERVISORS	Abel José Duarte (AJD), Fernando Ferreira (FJF), Benedita Malheiro (MBM), Maria Cristina Ribeiro (MCR), Manuel Silva (MSS) Pedro Barbosa Guedes (PBG), Paulo Ferreira (PDF)
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