





TITLE	Metallic & Fabric Dome for Green House or Winter Garden
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	NAME	Arne Speckstadt			
	N.	1151747	TEL.		EMAIL
	NAME	Bogdan Marius Barb			
	N.	1151748	TEL.		EMAIL
	NAME	Gergely Rajnai			
	N.	1151752	TEL.		EMAIL
	NAME	Jairo Pérez Daza			
	N.	1151753	TEL.		EMAIL
	NAME	Klaudia Skonieczna			
	N.	1151756	TEL.		EMAIL

SHORT DESCRIPTION	
Objective	<p>Design a dome composed of a metallic support structure and a fabric cover. Technically, the dome must be a V3 or V4 geo-dome with a diameter of 6.8 m. The design main goals are:</p> <ul style="list-style-type: none"> – Find a simple, robust and easy solution for the junction nodes of dome structure using metallic profiles. – Find and implement a solution for an articulate and automatic entrance door, which occupies a full hexagon. – Find and implement a solution for the automatic operation of the windows. – Build a scale model and/or a full scale detail of the structure, <i>e.g.</i> the junction node.
Requirements	<ul style="list-style-type: none"> – Reuse provided materials; – Use low cost hardware solutions; – Use open source software; – Adopt the International System of Units (NIST International Guide for the use of the International System of Units); – Comply with the Machine (2006/42/CE 2006-05-17), Electromagnetic Compatibility (2004/108/EC 2004-12-15), Low Voltage (2014/35/EU 2016-04-20), Radio Equipment (2014/53/EU 2014-04-16) and Restriction of the use of certain Hazardous

	Substances (ROHS) EU Directives.
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RELEVANT DATA

Maximum budget: 100 €

RESOURCES

ACADEMIC SUPERVISORS	Abel José Duarte (AJD), Benedita Malheiro (MBM), Fernando Ferreira (FJF), Maria Cristina Ribeiro (MCR), Manuel Silva (MSS), Pedro Barbosa Guedes (PBG), Paulo Ferreira (PDF)
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COMPANY	ISEP
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ADDRESS	
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EMAIL	
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WEBSITE	
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SUPERVISOR	
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TEL./EMAIL	
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