

TITLE	Wooden Dome Shelter
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SHORT DESCRIPTION

Objective	<p>Design a wooden dome made of a support structure or a self-sustained 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 timber beams. – 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.

RELEVANT DATA

Maximum budget: 100 €

RESOURCES

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