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SHORT DESCRIPTION	
Objective	The goal is to design, develop and build a drawing robot commanded through sounds or gestures.
Requirements	The robot should: <ul style="list-style-type: none"> – Move on a plane; – Work with distinct colours; – Be aesthetically pleasing; – Allow changing the drawing paper; – Have as maximum dimensions 1.00 × 1.00 × 0.80 m; – Reuse the provided materials; – Use low cost hardware solutions; – Use open source software; – 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: 150 €

RESOURCES

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