

SHORT DESCRIPTION

EUROPEAN PROJECT SEMESTER - EPS@ISEP PROJECT DESCRIPTION

Project:

P06

Semester:

Spring 2016

TITLE		Didactic Robotic Fish Kit				
	NAME	Achim Reinhardt				
	N.	1151742	TEL.		EMAIL	
	NAME	Alvaro Chousa Esteban				
	N.	1151746	TEL.		EMAIL	
	NAME	Justyna Urbanska				
	N.	1151755	TEL.		EMAIL	
6	NAME	Martin McPhee				
136	N.	1151761	TEL.		EMAIL	
	NAME	Terry Greene				
	N.	1151767	TEL.		EMAIL	

The goal is to design, develop and build a fish robot for kids to start Objective learning programming. The robot should have one degree-of-freedom and be actuated by a low cost RC servomotor. The controller must be chosen considering the easyness of programming versus cost. All components must fit inside the robot body and the body is to be built using a 3D printer. The programming "language" should be adequate for kids. Requirements Use a minimal number of standard batteries (four 1.5 V AA batteries or one 9 V battery); Create the project website to provide all information needed to replicate the robot (drawings, components, source code, etc.) in PT and EN as well as instruction scripts with some basic experiments; 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



EUROPEAN PROJECT SEMESTER – EPS@ISEP PROJECT DESCRIPTION

Project: P06
Semester: Spring 2016

	Substances (ROHS) EU Directives.
RELEVANT DATA	A
Maximum budg	et: 50 €
RESOURCES	
ACADEMIC	Abel José Duarte (AJD), Benedita Malheiro (MBM), Fernando Ferreira
SUPERVISORS	(FJF), Manuel Silva (MSS), Maria Cristina Ribeiro (MCR), Pedro
	Barbosa Guedes (PBG), Paulo Ferreira (PDF)
COMPANY	
ADDRESS	
EMAIL	
WEBSITE	
SUPERVISOR	
TEL./EMAIL	