

euRathlon 2014

29th September - 3rd October 2014,

La Spezia, Italy

Team Information Form

Team Details

Team Name: University of Girona

Institution/Company: University of Girona

Logo (attach or insert here):



Website: cirs.udg.edu

Home location of team: Girona

Name of team leader: Guillem Vallicrosa

Picture of team leader (attach or insert here):



When was the team established (year): 2014

Team Description (including names of the team members):

euRathlon 2014 - Team Information Form

- Guillem Vallicrosa, team leader, PhD student University of Girona
- Juan David Hernández, PhD student University of Girona
- Igor Peric, master student University of Girona
- Eduard Vidal, undergraduate student University of Girona
- Èric Pairet, undergraduate student University of Girona
- Carles Candela, research technician University of Girona
- Marc Carreras, Associate Professor University of Girona

Team Sponsors (if any):

Contact Details

Team E-mail: guillemvallicrosa@gmail.com
marc.carreras@udg.edu


Institution/Company: University of Girona

Address:

Edifici CIRS
Parc Científic i Tecnològic UdG
C\ Pic de Peguera 13 (La Creueta)
17003 Girona
Spain

Telephone: +34 972418879

SCENARIO SELECTION AND VEHICLE(S) SPECIFICATION

SCENARIO SELECTION PER VEHICLE								
Vehicle name	Sparus II AUV	Team name	Univ. of Girona	Team leader	Guillem Vallicrosa			
	Age of current vehicle	Will it participate in SAUCE'14? If so, specify budget.	EURATHLON 2014: Selection of scenarios (please check all scenarios you wish to enter with this vehicle)					
	1 year	no	Yes	Long range autonomous underwater navigation				
			Yes	Environmental survey of the accident area (mapping)				
			Yes	Leak localisation and structure inspection				
			Yes	Interaction with an underwater structure (manipulation)				
			Yes	Combined scenario				
VEHICLE SPECIFICATIONS								
No. of Thrusters	Thrusters Brand	Thrusters Type	Machining used in the process	Materials used	Software used for mechanical design	Onboard Computer	Software	Wireless Comms
3	Own design	Brushless DC motor with magnetic coupling	CNC	Aluminium and acetal	Solid works	PCIe/104, Intel Core i7 2.20GHz Dual Core,	ROS, UWSIM	Wireless Acces Point in vehicle antenna and external buoy
Sensory payload	Does the AUV include BMS?	Please, specify Sonar (if any)	Model of the Sonar	Please, specify which IMU (if any)	Model of the IMU	Connectors	Other electronics	AUV value
imaging sonar, 5 echosounders,	Yes	Micron Sonar Trittech, Delta T multibeam Imagenex, 852 Echosounders Imagenex, Ethernet		MEMS, 60/hr in-run bias	Analog ADIS16488	Subconn compatible	DVL RDI Explorer 600	100.000€

firewire camera, video composite camera, multibeam, side scan sonar		Sidescan Sonar Imagenex					
---	--	-------------------------	--	--	--	--	--