Personal information:

First name: Eduard
Surnames: VIDAL GARCIA
Nationality: Spanish
Personal id. (NIF): 77921715S
Gender: Male
Date of birth: May 25, 1991
Place of birth: Arbúcies
Country: Spain
State: Girona

Bachelor's degree:

Name: Industrial Engineer
University: University of Girona
Year: 2014
Awards: Scored 8.79/10 and 3.03/4. Best final project award by "Demarcación de Girona, Colegio de Ingenieros Industriales de Cataluña"

Master's degree:

Name: ViBOT Erasmus Mundus Master Course in Robotics and Computer Vision
University: University of Burgundy (France), University of Girona (Spain) and Heriot-Watt University (UK)
Year: 2016
Awards: Scored 9.6/10. Best student award

Languages:

Certificates: English: Cambridge First Certificate in English. 2010
English: ETS TOEFL iBT. Scored 102/120. 2014

Publications:

Authors and title: M. Carreras, C. Candela, D. Ribas, A. Mallios, L. Magí, E. Vidal, N. Palomeras and P. Ridao, "SPARUS II, design of a lightweight hovering AUV"
Journal, book or conference: 5th International Workshop On MARine TECHnology, MARTECH 2013 Girona
Year: 2013

Authors and title: M. Carreras, E. Vidal, C. Candela, D. Ribas, A. Mallios, L. Magí, N. Palomeras and P. Ridao, "SPARUS II AUV, an open platform for the euRathlon underwater robotics challenge"
Journal, book or conference: EuRathlon Workshop on Field Robotics, Germany
Year: 2013

Authors and title:	J. D. Hernandez, E. Vidal, G. Vallicrosa, E. Galceran and M. Carreras, "Online Path Planning for Autonomous Underwater Vehicles in Unknown Environments"
Journal, book or conference:	IEEE International Conference on Robotics and Automation (ICRA)
Year:	2015
Authors and title:	J. D. Hernandez, E. Vidal, G. Vallicrosa, E. Pairet and M. Carreras, "Simultaneous Mapping and Planning for Autonomous Underwater Vehicles in Unknown Environments"
Journal, book or conference:	OCEANS15 MTS/IEEE Genova
Year:	2015
Authors and title:	J. D. Hernandez, G. Vallicrosa, E. Vidal, E. Pairet, M. Carreras and P. Ridao, "On-line 3D Path Planning for Close-proximity Surveying with AUVs"
Journal, book or conference:	IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles (NGCUV 2015)
Year:	2015
Authors and title:	M. Carreras, C. Candela, D. Ribas, N. Palomeras, L. Magí, A. Mallios, E. Vidal, E. Pairet and P. Ridao, "Testing SPARUS II AUV, an open platform for industrial, scientific and academic applications"
Journal, book or conference:	6th International Workshop On MARine TECHnology, MARTECH 2015 Cartagena
Year:	2015
Authors and title:	J. D. Hernandez, M. Moll, E. Vidal, M. Carreras and Lydia E. Kavraki, "Planning Feasible and Safe Paths Online for Autonomous Underwater Vehicles in Unknown Environments"
Journal, book or conference:	IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
Year:	2016
Authors and title:	J. D. Hernandez, K. Istenic, N. Gracias, N. Palomeras, R. Campos, E. Vidal, R. García and M. Carreras, "Autonomous Underwater Navigation and Optical Mapping in Unknown Natural Environments"
Journal, book or conference:	Sensors. Vol. 16, no.8, p. 1174
Year:	2016

Authors and title:	M. Carreras, J. D. Hernández, E. Vidal, N. Palomeras and P. Ridao, "Online Motion Planning for Underwater Inspection"
Journal, book or conference:	AUV2016 Japan
Year:	2016
Authors and title:	E. Vidal, J. D. Hernandez, K. Istenic and M. Carreras, "Online View Planning for Inspecting Unexplored Underwater Structures"
Journal, book or conference:	IEEE Robotics and Automation Letters (RA-L). Vol. 2, no. 3, pp. 1436-1443
Year:	2017
Authors and title:	J. D. Hernandez, E. Vidal, J. Greer, R. Piasco, P. Jaussaud, M. Carreras and R. Garcia, "AUV online mission replanning for gap filling and target inspection"
Journal, book or conference:	IEEE OCEANS 2017-Aberdeen
Year:	2017
Authors and title:	N. Hurtos, A. Mallios, N. Palomeras, J. Bosch, G. Vallicrosa, E. Vidal, D. Ribas, N. Gracias, M. Carreras and P. Ridao, "LOON-DOCK: AUV homing and docking for high-bandwidth data transmission"
Journal, book or conference:	IEEE OCEANS 2017-Aberdeen
Year:	2017
Authors and title:	A. Mallios, E. Vidal, R. Campos and M. Carreras, "Underwater caves sonar data set"
Journal, book or conference:	International Journal of Robotics Research (IJRR). Vol. 36, no. 12, pp. 1247-1251
Year:	2017
Authors and title:	M. Carreras, J. D. Hernandez, E. Vidal, N. Palomeras, D. Ribas and P. Ridao, "Sparus II AUV-A Hovering Vehicle for Seabed Inspection"
Journal, book or conference:	IEEE Journal of Oceanic Engineering (JOE). Vol. 43, no. 2, pp. 344-355
Year:	2018
Authors and title:	E. Vidal, J. D. Hernandez, K. Istenic and M. Carreras, "Optimized Environment Exploration for Autonomous Underwater Vehicles"
Journal, book or conference:	IEEE International Conference on Robotics and Automation (ICRA)
Year:	2018

Authors and title:	N. Palomeras, G. Vallicrosa, A. Mallios, J. Bosch, E. Vidal, N. Hurtos, M. Carreras and P. Ridao, "AUV homing and docking for remote operations"
Journal, book or conference:	Ocean Engineering Journal. Vol. 154, pp. 846-894
Year:	2018

Authors and title:	E. Vidal, J. D. Hernandez, N. Palomeras and M. Carreras, "Online Robotic Exploration for Autonomous Underwater Vehicles in Unstructured Environments"
Journal, book or conference:	IEEE Oceans 2018-Kobe (2nd prize at the Student Poster Competition)
Year:	2018

Authors and title:	E. Vidal, N. Palomeras and M. Carreras, "Online 3D Underwater Exploration and Coverage"
Journal, book or conference:	AUV2018 Portugal
Year:	2018

Authors and title:	N. Palomeras, N. Hurtos, E. Vidal and M. Carreras, "Autonomous Exploration of Complex Underwater Environments Using a Probabilistic Next-Best-View planner"
Journal, book or conference:	IEEE Robotics and Automation Letters (RA-L). Vol. 4, no. 2, pp. 1619-1625
Year:	2019

Authors and title:	E. Vidal, M. Moll, N. Palomeras, J. D. Hernandez, M. Carreras and Lydia E. Kavraki, "Online Multilayered Motion Planning with Dynamic Constraints for Autonomous Underwater Vehicles"
Journal, book or conference:	IEEE International Conference on Robotics and Automation (ICRA). (Nominated for the ICRA 2019 Best Student Paper Award)
Year:	2019

Authors and title:	E. Vidal, N. Palomeras, K. Istenic, J. D. Hernandez and M. Carreras, "Two-Dimensional Frontier-Based Viewpoint Generation for Exploring and Mapping Underwater Environments"
Journal, book or conference:	Sensors. Vol. 19, no. 6, p. 1460
Year:	2019

Participation in research projects through contract or scholarship associated with the project:

Title:	Software development for the European project PANDORA (Persistent Autonomy through learNing, aDaptation, Observation and Re-plAnning - PANDORA, reference FP7-ICT-2011-7-288273)
Institution:	University of Girona
Period:	15/06/2012 a 15/09/2012
Project leader:	Salvi Mas, Joaquin

Title:	Scholarship to participate in the EURATHLON European robotics competition as a member of the winning team of the University of Girona. The competition took place in La Spezia (Italy), Centre for Maritime Research and Experimentation (CMRE)
Institution:	University of Girona
Period:	29/09/2014 a 03/10/2014
Project leader:	Carreras Perez, Marc

Scholarships:

Institution:	University of Girona
Name of the scholarship:	"Beca de transferencia e innovación (BTI)"
Period:	01/11/2012 to 30/06/2013

Institution:	Spanish Education Ministry
Name of the scholarship:	"Beca de colaboración"
Period:	01/11/2013 to 30/06/2014

Institution:	University of Girona
Name of the scholarship:	"Convenio de cooperación educativa"
Period:	01/09/2013 to 30/06/2014

Institution:	European Commission
Name of the scholarship:	Erasmus Mundus funding to study the VIBOT Master Course
Period:	01/09/2014 to 31/08/2016

Institution:	Spanish Education Ministry
Name of the scholarship:	"Ayuda de Formación de Profesorado Universitario (FPU)"
Period:	2015 to 2019

Institution:	Spanish Education Ministry
Name of the scholarship:	"Beca Estancia Breve (FPU)"
Period:	2017

Seminars, workshops and tutorials:

Name of the event:	Tutorial "SPARUS II AUV Software (ROS based) and Hardware" teaching ROS and Sparus II Software Architecture in the Workshop on Marine Sensors and Manipulators
Place:	Las Palmas de Gran Canaria
Year:	2015
Institution/Organizer:	PLOCAN – Plataforma Oceánica de Canarias
Type:	Teaching in workshop

Name of the event:	Summer School 2nd Field Training Workshop in Underwater Robotics, TRIDENT European project
Place:	Sóller, Mallorca
Year:	2012
Institution/Organizer:	University of Balearic Islands (UIB)
Type:	Workshop attendance

Name of the event:	Sparus II tutorial for 4 European teams in the context of the European project EURATHLON
Place:	University of Girona
Year:	2014
Institution/Organizer:	University of Girona
Type:	Teaching in tutorial

Name of the event:	IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles (NGCUV 2015)
Place:	University of Girona
Year:	2015
Institution/Organizer:	University of Girona
Type:	Workshop attendance

Other:

Other collaborations:	AUV (Autonomous Underwater Vehicle) operator and programmer in the MORPH European project in Toulon (France) in 2013 and in St. Feliu de Guíxols (Spain) in 2014