

C.V.

Keywords: Scientist, Engineer, Multicultural, Multidisciplinary

Identity

Name Surname: Jan SLIWKA

Born: 3rd July 1984

Nationality: Polish

Address: Viale Italia 269, 19124, La Spezia, Italia

Mail : jan.sliwka@gmail.com

Web: <http://jan-sliwka.net>

Education

2008-2011: **doctorate** in underwater robotics: « Using set membership methods for robust underwater robot localization »

2004-2008: **double diploma: engineer degree** at ENSTA-Bretagne (ex-ENSIETA) in « Computer science and automatics for embedded systems » and **master degree** at ISTIA in « Dynamic systems and signals »

Note: ENSTA-Bretagne has a particular programme where the first year is multidisciplinary (Mechanics & Electronics & Computer Science) and the students specialize more and more through the years.

Languages

Polish: mother tongue

French: fluent

English: very good [*ITP TOEFL: 630, extensive professional experience*]

Arabic: good level [*Moroccan baccalaureate*]

Moroccan dialect: good level [*Lived 16 years in Morocco*]

Italian: good level [*Lived more than 3 years in Italy*]

Japanese: Intermediate level [*4 months of intensive language course, JLPT Level 3 certification*]

Professional experience

Experience @ CMRE (Applied sciences and Engineering)

2012-2015: **Applied science:** Implementing LBL localization using interval methods running on ROS and processing the COLLAB13 dataset in the context of the MORPH project (Joao Alves). Simulated and real world implementation of real time constellation optimisation (MOOS pOctaver node on the vehicles during a trial). The point was to optimise the positioning and communication capability of an underwater vehicle (folaga) by moving surface vehicles (wavegliders) in an optimal fashion. (Also MORPH project)

Engineering: Miscellaneous tasks for CMRE's ETD department: AUV simulator in C++, AUV graphical interface in Qt, Acoustic modem driver, Implementing range measurements using Evologics acoustic modem running on MOOS.

Professional experience (continuation)

Robotics at ENSTA-Bretagne (ex-ENSIETA):

2011-2012: research engineer in the context of the ACOBAR Project. My mission was to find navigation algorithms for a sea glider to navigate in between drifting acoustic RAFOS beacons (1560Hz) without surfacing (since the experience is supposed to take place under the polar ice cape). I also processed the AWI dataset from the Fram strait (lower frequency but higher range) for the localisation of a sea glider.

PhD & Engineer degree studies: member of the school's «robotics club» thus many contributions to different robotics projects (underwater robots, robotic sailboats, unmanned ground robots...). The main project is the one I focused on during my PhD: The AUVs for the SAUC'E competition (Participation 2008 to 2011). As such I have gained practical experience design, construction and tests of robots.

Electronic design at Azbil in Japan:

2007: internship of 8 months in a Japanese corporation Azbil (ex-YAMATAKE Corp.). My mission was to design, construct and test an intelligent electronic sensor board for humidity and temperature measurement.

First contact with marine robotics:

2005: beginner internship of 1 month at ECA Toulon (FR), a specialist in marine robotics.

Publications

Please consult the web page: <http://jan-sliwka.net/publications> for the list of publications and seminars

Computer skills

OS: Windows, Linux

Document writing: MS office and Libre office suite (writer, presenter, spread sheet, drawing), Latex, Inkscape, gimp, corel draw

Scientific programming and scripting languages: Matlab-Simulink, Python, Scilab, linux bash

Compiled programming languages: C/C++, Java

Other type of computer skills: Electronic design, modeling and code generation, mechanical design

Leisure activities / sports

Sports: catamaran Hobie16, volleyball, badminton, squash, running

Hobby: inventions, music, numismatics, fishing.