

Arthur Valiente

Research Engineer
Robotic - Automation
Embedded Systems



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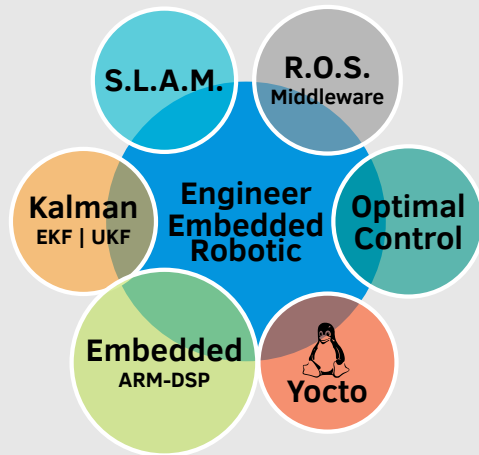
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ArthurVal

Skills

Preview



Programming skills

C • C++ • Python • Git • R.O.S.

Bash • CMake • Make • Emacs

Matlab • Simulink

JavaScript • \LaTeX

Languages

French

English

Spanish • Japanese

Education

- 2012 - 2015 **Master degree in Engineering: Electrical & Automation** [INP-ENSEEIH](#)
- Control, Decision and IT for Critical Systems (CDISC)
 - Development of Critical IT Systems (DeSIC)
- 2010 - 2012 **2-years University degree in technology (HND)** [I.U.T Paul Sabatier, Toulouse](#)
- Physicals Measurements
 - Instrumental Techniques
- 2010 **A-level in Engineer Science** [Lycée Alexis Monteil, Rodez](#)

Experience

- Jul 2018 - Now **Fixed-term contract: Research Engineer, 18 months** [CEA-DRF-IRFU, Paris](#)
SVOM Project: In charge of the automatic test bench of the onboard software for the ECLAIRS Gamma-Ray instrument
- **CEA - IRAP - CNES** collaboration
 - Development of the distributed Local Test Unit (2x Zedboards, PC, ...) (C++, Python)
 - PyTest testing framework development
 - Development of scripts associated to the unit test case (Python)
- Jan 2017 - Dec 2017 **Fixed-term contract: Research Engineer, 12 months** [CEA-DRT-LIST, Paris](#)
In charge of the software development for robotic applications
- Co-responsible of the software development (Git Admin - R.O.S.)
 - Voronoi diagram & Occupancy grid algorithms development (C++)
 - Hybrid topological SLAM for mobile robot (Lidar / IMU / RGB-D Camera / ...) (C++)
 - **FACE Project:** In charge of the multi-SoC prototype (Renesas R-Car H3, Nvidia Tx3, Kalray MPPA Bostan)
 - Linux Yocto layers development for R-Car H3
- Sep 2015 - Dec 2015 **Fixed-term contract: Research Engineer, 3 months** [IRIT, Toulouse](#)
ANR RIDDLE Project: Development of the robotic demonstration on PR2 and ROMEO robots
- Importing object recognition and human interaction (vision and voice) algorithms on ROMEO robot of Aldebaran Robotics
 - Creating a bridge between object recognition algorithms - simulator using R.O.S. (C++)
- Mar 2015 - Sep 2015 **Internship: Computer Vision data fusion** [CNRS-LAAS, Toulouse](#)
ANR RIDDLE Project: Fusion of computer vision & radio-frequency method for object recognition
- Development of object recognition software on R.O.S. using RGB-D Kinect camera (LINEMOD & TABLETOP) (C++)
 - Creating a custom communication protocol using UART on DSP (C, C++)
- Feb 2015 - Mar 2015 **Student Project: Sound sources localization** [CNRS-LAAS, Toulouse](#)
TWO!EARS Project: Probabilistic algorithms for binaural sound sources localization
- Multi-Hypothesis Unscented Kalman Filter (MH-UKF) (C++)
 - Binaural sound sources localization on R.O.S. (C++)
- Jul 2014 - Aug 2014 **Internship: Technician** [Cassidian Test & Services, Colomiers](#)
Technician Internship - PCIe link on FPGA (VHDL)
- Jul 2013 - Aug 2013 **Intership: Worker** [Tokyo / Kitakyushu, Japan](#)
House painter
- Apr 2012 - Jun 2012 **Internship: Technician** [GTP Technology, Labège](#)
Instrumentation technician - Data acquisition (Modbus, UART, RS-485)