

Paul MESNILGRENTÉ

Engineer in  
"Robotics and Interactive Systems"

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03/02/1993 – 24 years old  
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Search for a job

## EDUCATION

2015/2017: **Engineering school** University Paul Sabatier, Science, Ingénierie, TECHNOLOGIE (UPSSITECH), Robotics and Interactive System (SRI).

2014: **2nd year in computer sciences** in the University Paul Sabatier (UPS).

2013: **University Institute of Technology in computer sciences** in the University Paul Sabatier (UPS).



## COMPUTER SCIENCES SKILLS

**Programming:** object modeling (UML), database modeling, algorithm proof

**Web Programming:** complete creation of dynamic website with Less/Bootstrap and **Symfony**.

**Languages:** **Java** (energy management), **C** (baghchall game), **C++** (Object tracking with OpenCV), Bash, Python...

**Android:** complete application during my UIT (University Institute of Technology)

## ROBOTICS SKILLS

**Automatic:** state space, proportional control

**Discrete event system:** moore's state machine, **Petri's network**

**Micro-controller:** C167 → network communication by **bus CAN** → motor's control

**Robotics:** *Direct/Indirect Geometric Model*, *Direct/Indirect Differential Model*, *path planning*, *motion planning*

## WORK EXPERIENCE

### INTERNSHIPS

2017: final internship and following job in Ortelio Ltd

- Integration of applications in a cloud robotics platform.
- ROS environment with OpenCV, Eigen, MRPT.
- Face recognition, way point navigation, human tracker.

2016: internship in IRIT (<https://www.irit.fr/?lang=en>) in the ELIPSE team

- OpenCV to detect patterns formed by infrared LEDs with an infrared camera.

2013: internship in the company **Bull** closely with GFI (Groupe Français d'Informatique)

- Automatic repatriation of files in **SFTP** (code in Java in a **JavaEE** application)
- Add of information in the conception document



### SCHOOL PROJECTS

2016: advanced robotics → **motion planning**, robot architecture, ROS.

2016: use of **Stäubli RX60 (4R)** → "Stäubli Robotics Suite" - **Pic'n'place tasks**.

2015: robotic project, mobile robot to map a room

Skills: **arduino**, sensors equipment, documentation on the **sensors** and on the **xbee**.

### JOBS

2013/2014: complete creation of a website for a company (<http://www.dansmalibrairie.fr/>)

Tools: HTML5/CSS3, Bootstrap customized with Less, PHP, Symfony, Doctrine, Twig.



2009, 2010, 2011, 2012, 2013: during two months, **tennis trainer** in a holidays camp the morning, and the afternoon, **operator** for the parents.

## OTHERS

- **Speaking language:** Fluent english, TOEIC score: 925, technical English, Spanish BAC level.
- **Education:** tennis trainer at federal level (2009).
- **Hobbies:** tennis/badminton competition, amateur guitar and piano, online chess.