

David Bensoussan

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Embedded Systems Engineer

Soon graduated, I am able to develop **embedded solutions**. I like optimised conception, **smart and efficient work**. Most of my projects are focused on **embedded systems programming for robots** and Internet of Things. I am currently at **Synapticon** for an internship until september and **looking for a full time position** after it.

Education

ESIEA

2010 - 2015

GRADUATE SCHOOL OF ENGINEERING

Embedded systems major, 3 years in robotics student organisation (including one year of presidency), **robotics courses and competition** organisation.

Experiences

SYNAPTICON

March 2015 - September 2015
Internship

OS BUILDING AND ROS DEVELOPMENT FOR A LAWNMOWER ROBOT

Using **Yocto** to build optimised embedded system on a Raspberry Pi, developping with **ROS** (odometry, mapping, navigation).

MAINTOOL

April - July 2014
Internship

HEART RATE SENSOR DESIGN

Electronic design of the **main sensor** for a connected strap, **based on LEDs and photodiode**.

GANYMEDE

October 2014
Hackhaton 24h

WINNER OF INTEL'S IOT ROADSHOW (1500\$)

Development of a device intended to **protect** people by displaying the **air quality** locally.

QUADRICOPTER

October 2013 - Mars 2014
Project

DESIGN OF A QUADRICOPTER FROM SCRATCH

Specification, conception and realisation of a remoted controlled quadricopter.

Skills

Robotics student organisation

SYSTEM

Linux, Embedded interfaces, **Kernel**, RTOS

LANGUAGES

C, C++, Python, shell

BOARDS

Raspberry Pi, Altera, Edison, Arduino

APEROBO

Organised an **appointment of 150 robotics enthusiasts** and a **competition between engineering schools**.

NUIT DU HACK (2011 - 2014)

Animated **workshops of hardware hacking**, Arduino and MSP430.

TRAINING

Gave **courses, training and guidance** in robotics to students.

Software

ROS

Others

Interfaces	★★★★☆
Linux	★★★★☆
Sensors	★★★★☆
FPGA	★★★☆☆

Odometry	★★★★☆☆
Mapping	★★★☆☆
Navigation	★★★☆☆

Yocto	★★★★☆
Algorithmics	★★★★☆
Git	★★★★☆
GCC Optimisations	★★★☆☆

Interests

🤖 Robotics

📁 Entrepreneurship

🔧 DIY

🖥️ Hacking

🌐 Web