Fabien SANTOS-CESSAC

mr.fab@live.com
Tel: (+33) 07 70 30 37 54 (France)
Tel: (+852) 2758 6209 (Hong Kong)

OBJECTIVE

To do a 6 month internship in the field of robotics or embedded systems between March and September 2016.

EXPERIENCE

Hanson Robotics Ltd., Hong Kong — *Junior Engineer*

JULY 2015 - AUGUST 2015 & MAY 2014 - AUGUST 2014

I built and repaired humanoïd robots, designed circuits and PCBs, and sourced components.

Andes Art Company Ltd., Hong Kong — *IT Manager*

APRIL 2012 - SEPTEMBER 2013

I managed the company website, Facebook and YouTube pages as well as the office computer network.

EDUCATION

ENSEIRB MATMECA, Bordeaux, France
Engineering Diploma (EXPECTED IN 2017)

The Hong Kong Polytechnic University, Hong Kong
Bachelor of Electronic and Information Engineering
Bachelor of Business Administration

BASIC INFO

Age: 25
Nationality: French
Permanent Hong Kong resident
International driving license

LANGUAGES

English (Native)
French (Native)
Spanish (Good)
Mandarin
(Intermediate: HSK level 3)

SKILLS

Programming Languages:
C++, C, Assembly, Java, Python

Platforms:
FPGA, PIC, Arduino, Raspberry Pi

Software:
Arduino ISE, Xilinx ISE, MP Lab, Matlab, Design Spark PCB, Cadence, Proteus

PROJECTS

Toy scale humanoid robot — *At Hanson Robotics Ltd.*

A small hackable humanoid robot based on the Arduino Nano with 4 servo motors in the head and a wide range of facial expressions.

Smart hexarotor — *Personal project (ongoing)*

A smart hexarotor with video telemetry. Controllable with remote control and head gestures detected by FPV goggles.

3D LIDAR scanner — *Academic project at ENSEIRB MATMECA*

A LIDAR scanner capable of converting an object to a 3D model in VRML. An arduino on board controls the electronics and acts as a web server receiving the scan command or sending the 3D file to a computer.

Remote controlled smart car — *Academic project at ENSEIRB MATMECA*

An RC car controlled by an FPGA. It overrides the pilot's commands and avoids obstacles when they are detected by 2 front-mounted ultrasonic sensors.

Hovercraft — *Personal project*

A remote controlled hovercraft built from the ground up. 2 ducted fans and servo motors control the speed and orientation, a modified CPU fan inflates the skirt. Commands are sent by radio in a modified PlayStation 1 Remote.