

Prénom Nom

Signal & image processing engineer

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WORK EXPERIENCES

Signal & image processing engineer

MAF Roda

08/2019 - 09/2019 Montauban

Image processing development in industry field using Matrox MIL library in C#.

C# Matrox MIL Visual Studio 2015

Software engineer

Astrophysics Laboratory of Marseille

10/2013 - 04/2015 Marseille

Within the scope of the Primed Focus Spectrograph project, an instrument control software has been developed.

I implemented a package, known as entrance unit, controlling different devices such as shutters, slit, back-illumination system, hexapod, etc.

Last-year internship

National Center for Scientific Research UMR5600

04/2012 - 10/2012 Lyon

The aim was to study an approach to extract characterization of particle size distribution from images of the bed of the Rhone collected by a tele-operated catamaran (Catarob). I developed an imaging software with GUI.

OpenCV Mamba R-cran Python

Full-year internship

National Centre for Space Studies

09/2010 - 09/2011 Toulouse

I developed a SAR (Synthetic Aperture Radar) simulator performance for the BIOMASS project.

Python NumPy SciPy

Engineering internship

Creatis - INSA

07/2010-09/2010 Lyon

I explained a bias error resulting from images of tire deformation. I found a way to implement matrix calculation using two GPU in CUDA.

itk/vtk CUDA C++ Matlab

PUBLICATIONS

- Pascal, Sandrine et al. (2015). "Prime Focus Spectrograph for the Subaru Telescope: Massively Multiplexed Optical and near-Infrared Fiber Spectrograph." In: *Journal of Astronomical Telescopes, Instruments, and Systems*.
- Le Mignant, David et al. (2014). "Integration and test activities for the SUMIRE prime focus spectrograph at LAM." In: *Ground-based and Airborne Instrumentation for Astronomy V.*

EDUCATION

Engineer in electronics

CPE (School of Chemistry, Physics and Electronics)

2008 - 2012 Lyon

Image and algorithm option.

C C++ Matlab

Master of science

INSA (National Institute of Applied Sciences)

2012 Lyon

System and images option.

Certificate

Coursera

2020

Deep Learning for computer vision.

Faster RCNN SSD YOLO GAN

PROJECTS

arduino project

2020

optical flow and jpeg codec

C ESP-IDF VScode PIO

Data scientist

Openclassroom

2017

machine learning and data science.

Python scikit-learn

Texture synthesis and inpainting

01/2012 - 02/2012 Lyon

Matlab Markov Random Field

I²C interface

2009 - 2010 Lyon

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LANGUAGES

English

Cambridge English B2 First (FCE)

