

Curriculum vitæ **Computer Vision Engineering**



carrer



Immersive video: immersive technologies (VR) in Kolor team

Non-linear optimization (CERES), Camera projection models, VR, rig calibration, 3Dreconstruction, SFM, GLSL.

2015

Aerial imagery: valorize aerial imagery for the customer needs

Delta Drone

aerial imagery: Technical design, prodution and management of on-site and offshore teams (France, India, US). Technical lead on embedded sensors: specifications, technology intelligence, sensor qualification for

Technical project manager for fully automated detection of vegetation intruding power lines design using

2 years

agriculture, energy and quarries applications.

Agile/SCRUM, projective geometry, non-linear optimization (scipy.optimize), C++, Qt, OpenCv, Magick, Python, numpy, git, linux/gnu.

2013

3D-stereoscopic Live shooting softwares: diagnose and fix 3D-stereoscopic for live shooting

Real-time correction software for 3D missalignement : design and fix computer vision algorithms.

Motion controlled 3D-rig equipped with variable length lenses: from mathematical design to implantation of motion control, including net protocol, and HTML5 remote control.

5 years

HDR video: sensor qualification, tollkits for merging video streams into HDR video (cf. NEVEX ☑).

Post-production correction software for 3D missalignement : design and implantation of UI. Projective geometry, lenses qualification, C++ (GNU/Visual), Linux, Embedded Linux,

2008



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3 years

PhD in Computer Vision: Obstacle detection using stereovision: automotive applications 🔼

Industrial stereoscopic senor calibration: lyfe cycle study, Defect detection, Fallback mode 3.

Detection and segmentation of potential obstacles

Tracking with Stereo-vision System for Low Speed Following Applications 🔼 .

compilation (toolchain, makefile, autotools), MatLab, Python.

C++ (Visual/GNU), MatLab, Python, algorithms delivery, internal+external communications, Experimental validations.

2004 **IIRALab**

Research assistant: interact with virtual humans

C++ (visual), Facial expression detection, European project management.

6 months 2003

Trainee: 3D reconstruction using camera cluster

3D Reconstruction using colorimetry.

Inría-6 + 3 months

Background/Silhouette learning for real-time 3D reconstruction

Color calibration, geometrical calibration, C++, video streaming, real-time

Education In few words 2008 Stéréovision pour la détection d'obstacles frontaux : PhD **Projective** Industry application à l'automobile. 💆 , oral 🗹 geometry sponsored* * CIFRE: I.N.P.G., I'I.N.R.I.A. et Renault **ImageMagick** adjustment 2003 Master non-linear Imagerie, Vision et Robotique. I.N.P.G. GIT optimisation 2002 Maîtrise Informatique à l'ufr I.M.A. Grenoble Python numpy scipy Ceres 2000 D.U.T. I.U.T d'Informatique - mention Grenoble

Misc.

Passions

Paragliding: qualified for passenger carriage, Ski: instructor at university

Side Projects

Graphical design: logos and materials for lebipbip.com 🗹, SpotAir 🗹, mobibalises 🗹