Sourigna Simmalavong software engineer

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PROGRAMMING LANGUAGES / LIBRARIES

C++, C#, Java, OCaml

iisu SDK (body and hand gestures development platform), **Computer Vision** \sim OpenCV, Point Cloud Library PlayStation Portable Runtime Library **Video Games** Virtools SDK Graphics OpenGL, XNA \triangleright \sim GUI WPF, Qt Scripting Python, Ruby, Bash, Batch, VBA Unit Tests googletest, NUnit \sim

PROJECT MANAGEMENT

OOP

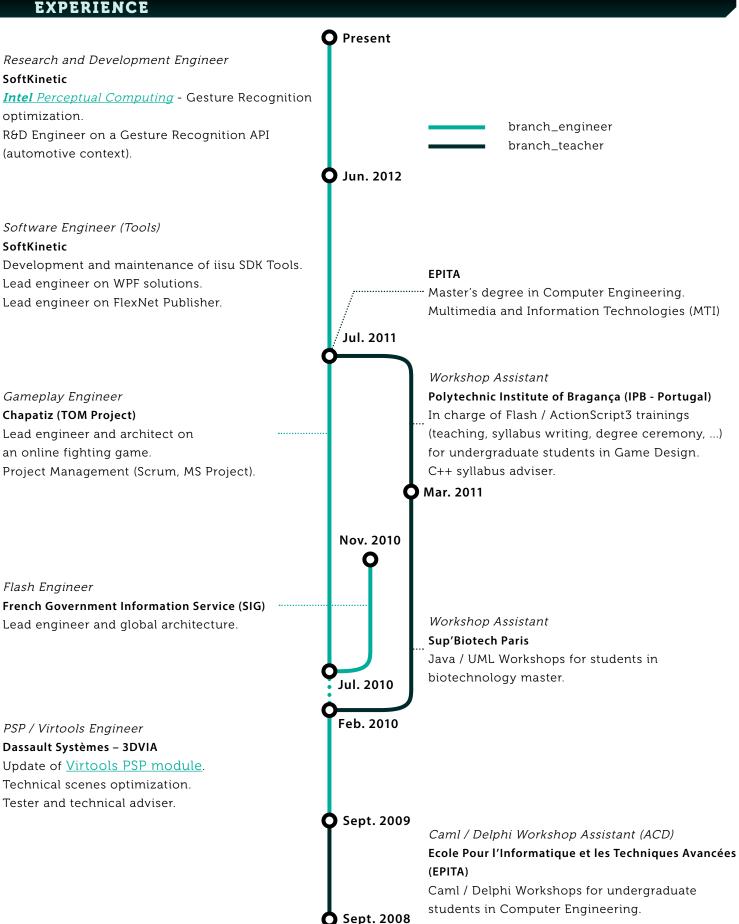
Agile Scrum, XP, Test Driven Development, Crucible (Code Review)

- Issue Tracking Jira, Redmine, Trac
- Versioning Git, SVN, Plastic SCM, AlienBrain
- **Project Management** Microsoft Project, Umbrello

	SOFTWARE	
\triangleright	IDEs	Visual Studio, IntelliJ IDEA, Netbeans, Eclipse, Emacs Intel Parallel Studio, GDB
\triangleright	OS	Windows (7, Vista, XP,), Unix (Ubuntu, FreeBSD,), Linaro
\triangleright	CAD	Photoshop, Lightroom, InDesign, Maya, 3DVIA Virtools

	LANGUAGES				
\triangleright	French	Native	\triangleright	Japanese	Basics
\triangleright	English	Bilingual	\triangleright	Dutch	Basics

	ACTIVITIES / INTERESTS		
\triangleright	High-Tech	Computer science, Video Games, Former Computer Science lecturer at GConf	
\triangleright	Hobbies	Qwan-Ki-Do (Martial arts) at European level, Guitar, Singing	



CAR API

Gestures API in an automotive context.

2012 - present (1 year)

R&D Engineer (5 people)

- Elaborate the main algorithms for real-time gestures recognition.
- Improve and guide the development process.
- Successfully contributed to the quality of critical milestones.
- Improve system with researches on Gestures User Experience.
- Automatized and developed productivity tools.
- Drove the team to achieve better code quality (Unit tests, Continuous Integration, ...).



Computer Vision, C++, Research, Agile, Unit Tests, Qt, Windows, Unix, Jenkins

SoftKinetic



Intel Perceptual Computing SDK

SoftKinetic[®]

SoftKinetic Close interaction SDK. 2012

R&D Engineer (14 people)

SoftKinetic

- Elaborated an algorithm for hand state recognition (opened / closed).
- Optimized the performances of the SDK.

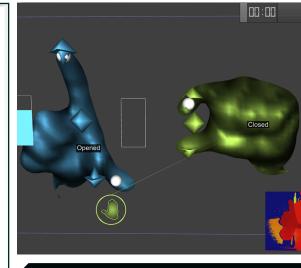
Computer Vision, C++, Optimization, 3D, Research

iisu Tools - Welcome to iisu

Software Suite.

2011 - 2012 Technical referent (4 people)

- Contribute to technical decisions and sprints management.
- Established entire life process for online samples deployment.
- Technical referent for WPF projects.
- Development on 7 different projects with various technologies.
- Integration of iisu Close Interaction (hand gestures recognition).
- GUI design and development.
- Integration of FlexNet Publisher licensing system.



C#, Scrum, XP, Code Review, C++, WPF, OpenGL, Qt, Unit Tests, Windows, Unix

Stream PARTY

Adobe RIA Cup Award Winner

Stream Party : Social application

2011 (24 hours rush)

Team leader (2 people)

- Designed and developed the global architecture.
- Integrated Webcam and Facebook API logic layers.
- Designed and developed the GUI.

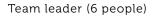
24h rush, Architecture, Social Network, Flash, ActionScript3, Photoshop

French Government contest Winner

Gouv Bureau: French government orgachart. 2010

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- Team management with developers and artist.
- Successfully translated customer objectives and strong constrains into an efficient and cutting-edge solution.
- In charge of the global architecture of the application.
- Developed two of the three main views.



Architecture, Team management, Flash, ActionScript3, Papervision3D, Windows



PlayStation. Portable

C++, OpenGL, PSP, Optimization, VSL, Documentation, Testing, Windows

Virtools PSP Module

PSP module for prototyping.

2009 - 2010

Game Engineer (Solo project)

- Updated, corrected and improved Virtools PSP module.
- Adapted and optimized a golf technical scene from Wii to PSP.
- Wrote technical reference papers and updated documentation
- Advised customers on Virtools best practices.
- Thoroughly ran and improved functional tests.
- Designed and developed the PSP module install program.