



# Antoine COSTES

37 years old, born 26th September 1989  
French driving license

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Smart systems research engineer

Phd in haptics & HCI

Robotician for performing arts

French, English: fluent, technical  
German: C1  
Korean, LSF: beginner

8 international [publications](#)  
1 [patent](#)

## Education

2015-2018	CIFRE (industrial) PhD in haptics (dir. Anatole Lécuyer)	Technicolor, Inria Rennes
2014/2015	Master 2 in smart systems - <a href="#">Ingénierie des systèmes intelligents</a>	UPMC (Paris 6)
2009-2012	Mechanical engineering degree - <a href="#">Génie Mécanique Développement</a>	INSA Lyon
2007-2009	Preparatory class PCSI-PSI	E.N.C.P.B. Paris
2007	High school baccalaureate (scientific)	Lycée Maurice Ravel

## Hard skills

Field	Langages, frameworks and tools		Hardware
	Proficiency	Certain ease	
Connected objects	C++ / Arduino	Flutter, webservers	Android, ESP32, sensors
IoT	Sigfox	LoRa	STM32
VR	SteamVR	C# / Unity	HTC Vive Pro
Robotics / haptics	CHAI3D	ROS	Virtuose, Falcon, Viper
Interactivity	Chataigne, Processing, Ableton Live	python, Max/MSP, Touch Designer	Kinect, Leap Motion, Raspberry Pi, Augmenta
Webapps	VueJS, Heroku	TS, PostgreSQL	Android, Raspberry Pi
Fast prototyping	Lightburn, Bambu Studio	Fusion360	3D printers, laser cutter
Engineering	R	Matlab, CATIA, ANSYS	

## Teachings

2024-25	<a href="#">M2 Création Numérique</a> - Initiation to robotics (18h)	Université Toulouse Jean Jaurès
2020-22-23	<a href="#">M1 Création Numérique</a> - Virtual Reality workshop (24h)	Université Rennes 2

## Background

2024-2026

Toulouse

### IoT field engineer

Research engineer / **LAAS-CNRS, PANAM France** (S4M team / Nox Storage)

Industrialization of a low-power multi-sensors probe for predictive monitoring of grain storage.

Conception, testing and deployment of IoT hardware (sigfox)

Development and maintenance of a webapp and its database

ref: [ppoujaud@noxstorage.com](mailto:ppoujaud@noxstorage.com) (responsible projet)

2021-2024

France,  
South Korea

### Robotician for performing arts, SFX designer

Freelance / **various clients**

Animatronics design

Fast prototyping (3D printing, laser cutting)

ESP32 modular firmware exposing OSC API

Software solutions and custom training for technicians

[www.instagram.com/antoine\\_animatronics](https://www.instagram.com/antoine_animatronics)

2019-2021

Rennes

### Prototyping innovative actuators for virtual reality

Research engineer / **Inria Rennes Startup Studio**

Mechatronic design of a gyroscopic actuator

Study of motion perception in virtual reality

Development of an Unity API for Haption haptic arm

ref: [anatole.lecuyer@inria.fr](mailto:anatole.lecuyer@inria.fr) (scientific advisor and phd director)

2015-2018

Rennes

### PhD on haptic images for touchscreens

Phd student / **Technicolor R&I, Inria Rennes (HYBRID team)**

Haptic and pseudo-haptic rendering solutions for tactile image

Software development for the Falcon haptic arm

Development of a pseudo-haptic mobile application

[MT180 contest \(in French\)](#)

ref: [philippe.guillot@interdigital.com](mailto:philippe.guillot@interdigital.com) (phd supervisor)

2012-2014

Lyon, Grenoble

### Real-time multimedia engineer

Freelance / **various clients**

Conception and realization of multimedia interactive installations

Videomapping, embedded electronics, motorization

<https://www.behance.net/antoinecostes>

2012

Grenoble

### Engineer internship

Ingénieur Mécanique Développement / **INSA Lyon, cie Adrien M / Claire B**

Stability study of the eMotion 3D engine

Development of real-time collision detection algorithms

Comparative study of numerical integration schemes