

# Cedric Honnet

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## ABSTRACT

Endlessly enthusiastic about an infinity of subjects including interactivity, new medias, robotics and arts, I deeply love exploring technologies... I am curious, relentless, passionate, and always open for collaboration discussions.

## Keywords

Interhacktivity, Arts and Embedded Systems.

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## ACADEMIC

### Publications

Papers available online: [honnet.eu/#Academic](http://honnet.eu/#Academic)

- NIME 2017: *Designing a Multi-Touch eTextile for Music Performances* - Maurin Donneaud, Cedric Honnet, Paul Strohmeier
- MOCO 2017: *Digital Oxymorons: From ordinary to expressive objects using tiny wireless IMUs* - Andreas Schlegel, Cedric Honnet
- MOCO 2017: *Music Skin: Fabric Interface for Expressive Music Control* - Maurin Donneaud, Cedric Honnet, Paul Strohmeier
- TEI 2017: *Second Skin: An Exploration of eTextile Stretch Circuits on the Body* - Rachel Freire, Cedric Honnet, Paul Strohmeier
- LM 2016: *Developing an Ecosystem for Interactive Electronic Implants* - Paul Strohmeier, Cedric Honnet, Samppa Von Cyborg
- MOCO 2016: *Movement of Things: Exploring Inertial Motion Sensing When Autonomous, Tiny and Wireless* - Andreas Schlegel, Cedric Honnet

### Reviewing

- Augmented Human Conference
- Tangible Embedded & Embodied Conference

### Teaching

*What?*

Internet Of Things, Electronics, Music Tech, and mentoring.

*Where?*

Various engineering schools, digital art labs, hackerspaces, and accelerators.

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## EXPERIENCE

### 2016-2017: Carpe Noctem

*Research Engineer, Trainer*

- Visiting Researcher at various institutions in Denmark, Singapore, etc. (see Publications section)
- Consulting for companies about wearables, entertainment and manufacturing in China, France, California
- Teaching in engineering schools, hackerspaces, fablabs...

### 2014-2016: Tangible Display, USA / France / China

*Co-founder - Research & Development Engineer*

- Designed (hardware+software) various interactive systems with RFID, touch screens or motion sensors such as the "Twiz" (Tiny Wireless IMU): a Bluetooth Low Energy powered 9 degree of freedom motion sensor: [Twiz.io](http://Twiz.io)
- The BAD project (Body Air Drum / TapMe), a wearable musical controller: [project.honnet.eu/TapMe](http://project.honnet.eu/TapMe)
- The SonArt project, an interactive system offering information and security for the Art Decoratifs museum (The Louvres): [project.honnet.eu/SonArt](http://project.honnet.eu/SonArt)

### 2012-2013: Sifteo, USA

*Embedded Systems Engineer & InterHacktivist*

- Worked on various elements of the firmware and software: user interface (sound, graphics...), battery management, simulator, graphics controller, bootloader reliability, etc.
- Experimental interactive projects: Implemented a gestures recognition system using the MIT-GRT Toolkit, added a MIDI interface to control music software, and developed an audio communication system to send data to smartphones, ex: [project.honnet.eu/Siftone](http://project.honnet.eu/Siftone) // [project.honnet.eu/NooN](http://project.honnet.eu/NooN)

### 2010-2011: Sigma Designs - USA

*Research & Development Engineer, Trainee*

Google's VP8 Video Decoder Porting on Custom Processor:

- Firmware improvement for optimizing memory management and accelerating execution
- Hardware instruction customization for specific purposes such as arithmetic decoding or binary tree decoding

### 2008: Telecom ParisTech EE Research Labs - France

*Research & Development Engineer, Trainee*

Evaluation of combinatorial components reliability using FPGA for massively parallel simulation of fault injection.

### 2007: Brunel University EE Research Labs - UK

*Research & Development Engineer, Trainee*

Signal Restoration experimentations & Universal Software Radio Peripheral modules implementations.

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## EDUCATION

### 2008-2011: Telecom ParisTech, France

*Master of Engineering (Diplome d'ingenieur)*

Embedded Systems, Robotics, Systems On Chip, Security

Extracurricular: [Telecom-Robotics.org](http://Telecom-Robotics.org), French boxing...

### 2006-2007: Brunel University, UK

*Bachelor of Engineering (Licence)*

EECS with emphasis on Digital Signal Processing

Extracurricular: Judo, Thai Boxing

### 2004-2008: University Pierre & Marie Curie, France

*Master of Science 1 (Maitrise)*

EECS with emphasis on Digital Electronics

Extracurricular: computer science tutoring for disabled students, Jujitsu, ambo

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## LANGUAGES

- English: Full professional proficiency
- Spanish: Professional working proficiency
- French: Native or bilingual proficiency

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## DISTINCTIONS, AWARDS...

- 2016: Mentor in art+tech accelerator (MaDlab Manchester)
- 2015: Google Soli alpha developer 2015
- 2014: Won the Bemyapp factory hackathon, SF, CA
- 2009: Besse Foundation laureate
- 2005: Kenpoken France champion - 80 Kg category
- 1997: DMC France DJ championship: 8th final (2nd youngest)

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## EXTRA

### Associations

- DataPaulette ([DataPaulette.org](http://DataPaulette.org)): wearable / textile hackspace core member
- Noisebridge ([Noisebridge.org](http://Noisebridge.org)): taught electronics/tinkering
- Cumbia Rockers ([GatosNegrosProd.com](http://GatosNegrosProd.com)): DJ in Cumbia-Fusion groups

### Residencies

- Singapore 2016: Media Lab Lasalle - visiting researcher: [honnet.eu/publications/MOCO17-DigitalOxymorons.pdf](http://honnet.eu/publications/MOCO17-DigitalOxymorons.pdf)
- Denmark 2015: Copenhagen University, Human-Centred Computing - visiting researcher: [body-ui.eu/?page\\_id=191](http://body-ui.eu/?page_id=191)
- France 2015: Fructus Animalis - [project.honnet.eu/fructus-animalis-e95c9f](http://project.honnet.eu/fructus-animalis-e95c9f)
- Singapore 2014: Growell - explored wild animals camera-trap, DIY farm robotics...
- Colombia 2012: Plataforma - [project.honnet.eu/Resbala](http://project.honnet.eu/Resbala) // [project.honnet.eu/Fusion](http://project.honnet.eu/Fusion)

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## REFERENCES

- David Merrill (Sifteo): [dMerrill\(a\)media.mit.edu](mailto:dMerrill(a)media.mit.edu)
- Ali Rizvi (Sigma Designs): [aRizvi\(a\)apple.com](mailto:aRizvi(a)apple.com)
- Alexis Polti: [Alexis.Polti\(a\)TelecomParisTech.fr](mailto:Alexis.Polti(a)TelecomParisTech.fr)
- Saeed Vaseghi: [Saeed.Vaseghi\(a\)Brunel.ac.uk](mailto:Saeed.Vaseghi(a)Brunel.ac.uk)