

Jelmer Tiete

electronics engineer

contact

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USA

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👤 JelmerT

languages

Dutch
English
French
German (notions)

programming

Python, C, ASM
HTML, PHP, CSS
JavaScript, node.js
Matlab, Latex
Verilog, VHDL

platforms

6LoWPAN, BLE
CC25XX, MSP430
mbed, Arduino
Beaglebone, rPi
3D printing

software

Contiki, TinyOS
Altium, Eagle
Autocad, IAR

interests

I'm a maker at heart and have a strong background in wireless sensor networks and computer science. My interests go out to electronic hardware design, research and (rapid) prototyping. I'm looking for more experience in supply chain logistics for consumer products. In all I'm a solution driven person, eager to learn and feel comfortable in a fast changing environment.

education

- since 2010 **Ph.D.** candidate in the engineering sciences VUB, Vrije Universiteit Brussel
Monitoring Noise Pollution with Microphone Array-Based Wireless Sensor Networks - Expected begin 2015
- 2008–2010 **M.Sc.** industrial engineering - distinction EhB, Erasmus Hogeschool Brussel
Majoring in electronics - ICT
Wireless link estimation in Contiki based sensor networks in collaboration with Hanoi University of Technology - Vietnam
- 2004–2008 **B.Sc.** industrial engineering - distinction EhB, Erasmus Hogeschool Brussel
Majoring in electronics - ICT

experience

- 2014 **beyond.io, Antwerp, Belgium** R&D Engineer
PCB design, firmware development and production consulting for diverse prototypes.
- 1-12 2011 **Zaffer BVBA, Zaventem, Belgium** R&D Engineering internship
Development and production start-up of a wireless window-shutter control system, including electronic design of several remote controls and motors. Development of firmware and software for smart remote controls and their wireless network.
- 2010 - 2014 **FabLaBXL, Brussels, Belgium** Fab lab manager
Start up and daily operations of an open workshop for students, artists and engineers where digital fabrication tools can be used freely to produce small scale products or projects.
- 2007 - 2012 **Culture Club, Ghent, Belgium** Light technician
Head technician, light director during events and evenings. Technical maintenance of light- sound and video-material. Technical advisor for events.
- 07 2007 **Right Management Consultants, Brussels, Belgium** IT Consultant summer job
Revising and adjusting company intranet site and accompanying databases.
- 07-08 2004/5 **Thomson (Grass Valley), Brussels, Belgium** Audio-visual technician summer job
Assistance in the deployment of diverse audio-visual installations in radio and TV studios (European commission, Flemish Parliament, ...).
- 2004 - 2014 **Freelance, Europe** Light-, sound- and video technician
Providing a full technical framework for events, shows, parties, performances, conferences, theater and live events. Designing of light-, sound-, video-, and power-plans. Programming and operating of diverse lighting- and video desks.

publications

article in peer-reviewed journal

ABox: New method for evaluating wireless acoustic-sensor networks

Felipe Reinoso Carvalho, Jelmer Tiete, Abdellah Touhafi, Kris Steenhaut

Applied Acoustics 79 (2014) pp. 81–91. Elsevier, 2014

SoundCompass: A Distributed MEMS Microphone Array-Based Sensor for Sound Source Localization

Jelmer Tiete, Federico Domínguez, Bruno da Silva, Laurent Segers, Kris Steenhaut, Abdellah Touhafi

Sensors 14.2 (2014) pp. 1918–1949. Multidisciplinary Digital Publishing Institute, 2014

Experimental Analysis of Small Scale PCB Manufacturing Techniques for Fablabs

Yannick Verbelen, Davy Van Belle, Jelmer Tiete

IJEIR 2.2 (2013) pp. 136–143. 2013

international peer-reviewed conferences/proceedings

Low-Overhead Time Synchronization for Schedule-Based Multi-Channel Wireless Sensor Networks

Kieu-Ha Phung, Huy Tran, Jelmer Tiete, Lan Tran, Kris Steenhaut

LANMAN 2013, 2013

Migration from a legacy wireless technology to ZigBee for a Home Automation market ready system

Federico Dominguez, Abdellah Touhafi, Jelmer Tiete, M Guler, Kris Steenhaut

Networked Sensing Systems (INSS), 2012 Ninth International Conference on, 2012

Coexistence with WiFi for a home automation ZigBee product

Federico Dominguez, Abdellah Touhafi, Jelmer Tiete, Kris Steenhaut

Communications and Vehicular Technology in the Benelux (SCVT), 2012 IEEE 19th Symposium on, 2012

A Web-service based Approach for Developing Integrable Noise Monitoring Modules.

Nguyen The Cuong, Abdellah Touhafi, Jelmer Tiete, Kris Steenhaut

CLOSER, 2011