jelmer**tiete**
electronics engineer

about

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USA

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⌂ JelmerT

languages

dutch
english
french
german (notions)

programming

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

platforms

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

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 preference goes out to electronic hardware design and (rapid) prototyping. I hope to gain experience in supply chain logistics for consumer products. In all I'm a solution driven person, eager to learn and feel comfortable in a 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

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**	R&D Engineer

PCB design, firmware development and production consulting for diverse prototypes.

1-12 2011	**Zaffer BVBA, Zaventem**	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. Programming of firmware and software for smart remote controls and their wireless network.

2010 - 2014	**FabLaBXL, Brussels**	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**	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**	IT Consultant summer job

Revising and adjusting company intranet site and accompanying databases.

07-08 2004/5	**Thomson (Grass Valley), Brussels**	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**	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. Construction of full lighting rig.

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
F Dominguez, A Touhafi, J Tiete, M Guler, K 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