jelmertiete

about

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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 Net-

works

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

B.Sc. industrial engineering - distinction 2004-2008

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 pro-

totypes.

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