### Résumé

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### **Education**

DSc(2008)/Msc(2001) in Technology, Helsinki University of Technology. BSc in Electrical Eng. (1999), Vilnius Gediminas Technical University.

## **Employment**

2013-2014: Faculty of Informatics at the University of Lugano, Via Giuseppe Buffi 13, CH-6904 Lugano, Switzerland.

2011-2012: DEMO, École Nationale Supérieure des Mines de Saint-Étienne,

158 cours Fauriel, 42023 Saint-Étienne, CEDEX2, France.

2008-2009: Department of Neurobiology at the University of California,

Los Angeles, 73-235 CHS, CA 90095-1763.

2000-2008: Faculty of Information and Natural Sciences at

Helsinki University of Technology,

P.O.Box 5400 (Konemiehentie 2), FI-02015, Finland.

# **Selected Projects**

esp32-vpn 2022	Built an IoT network without 3rd party services. ESP32, MicroPython, MQTT, EdgeVPN, Wi-Fi resilience, global connectivity under NAT, soil moisture sensors.
twinpeekz2 2021-2002	Rewrote a C++ volumetric lighting code in Go and Nim. GLFW, GLTF, forward rendering, PCF/PCSS shadows, PBR, 3D ray marching, OpenGL, GLSL, RenderDoc, Sponza, Linux.
adast 2020	Wrote a microcontroller code to repair a factory machine. Adast Maxima MS80, paper guillotine, avr-gcc, ATmega16.
hal-00723427 2012	Sped up MC integration in a complex engineering project. Fluid dynamics, shape optimization, kriging, parallelism, OpenFOAM, ParaView, ProActive PACA Grid cloud (INRIA), Scilab, Python, CMA-ES, expensive-to-evaluate functions.

## **Awards**

2008: Doctoral thesis award: "Pass with Distinction".

2008: Invited talk (Prof. Mads Nielsen, the University of Copenhagen)

2002-2006: ComMIT grant (postgraduate studies).

1999-2000: Nokia scholarship (Natalia Kantola, Robertas Tamulevičius).