

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).