

# Résumé

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## Education

DSc in Technology, Helsinki University of Technology (2008)  
MSc in Technology, Helsinki University of Technology (2001)  
BSc in Electrical Engineering, VILNIUS TECH (1999)

## Employment

2014–2022: Random jobs (gardening, construction sites, programming).  
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 Made an IoT network without 3rd party services.  
ESP32, MicroPython, MQTT, EdgeVPN, Wi-Fi resilience,  
global connectivity under NAT without port forwarding.

[twinpeekz](#) 2021 Enhanced C++ volumetric lighting code with Go.  
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.  
Turbulent fluid flow, shape optimization, 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).