

PERSONAL  
INFORMATION

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ABOUT ME

I am a former professional volleyball player, I graduated from the Olympic reserve sports school. I also graduated from the engineering class at school.

SKILLS

**Python :** FastAPI, Flask, SQLAlchemy, python-telegram-bot, faststream, numpy, pandas.  
**Go** FastAPI, Flask, SQLAlchemy, python-telegram-bot, faststream, numpy, pandas.  
**Databases** Postgres, sqlite, Redis, S3(Yandex Object Storage).  
**Message brokers :** RabbitMQ, Kafka, Mosquitto.  
**Other techonologies :** SQL, Java, JavaScript, Rust, Latex, Go.  
**Scientific softwares** Comsys, Maple, Matlab, Mathematica, Scilab, Keysight's VEE and ADS, NI LabVIEW.  
**Dev tools :** Neovim, Docker, docker-compose, docker-swarm, CI/CD(Github actions, GitLab actions)  
**Languages :** Russian, English.

EDUCATION

Central University - Mathematics and Computer Science, 2028

CERTIFICATIONS

**Yandex Lyceum.** I was externally admitted directly into the second year of the Yandex Academy Lyceum's Industrial Development course. I earned a honors certificate and achieved a perfect score of 100/100 on the final project.  
*September 2022 - April 2023*

ACHIEVEMENTS

**Qualified for the finals of the Russian Competitive Programming Championship**, where our team designed a microservice architecture for a web app aggregating sports events across Russia (tech stack : RabbitMQ (FastStream), FastAPI, React, Kafka, OAuth) and developed an algorithm for processing and validating annual government reports on sports events.  
*November 2024*

**Participated in the Nuclear IT Hackathon**, where my team and I worked on a Rosatom case to develop a service for determining the emotional tone of online meeting statements. I created prototypes and implemented the frontend on React, while my team trained the model.  
*April 2024*

**I won the Science for Life scientific-practical conference** with a smart home project for private and public educational institutions (tech stack : Redis, Zigbee2MQTT, websockets, Go, Python, Flask, React).  
*June 2024*

INTERESTINGS

**Philosophy** Unix, Linux and Windows  
**Books :** Unix, Linux and Windows

**Lecturer** University of Colorado, Boulder*January 2016-May 2016*

ECEN 5014-003, "Microwave Measurements and Calibration Fundamentals"

**Research Associate** University of Colorado at Boulder*June 2013-May 2016*

Achievements :

- LabVIEW software for a "Do-it-yourself" Large-Signal Network Analyzer (LSNA)
- Time domain measurement setup in Scilab (VTD-SWAP)
- Outphasing PA characterizations
- Load-pull in time-domain

**Measurement Engineer (CNRS) XLIM***December 2007-May 2013*

Achievements :

- Korrigan European Project activities (RTP N°102.052 funded within the EUROPA framework in the CEPA2 priority area - ends early 2009) : GaN HEMTs circuits level modeling from european foundries (Thales / QinetiQ) for HPA, LNA and Switches
- Time domain measurement setup (LSNA) development on Scilab-TCL/TK (GUI, calibration and measurement automation)
- Development of HEMTs modeling tools (Scilab)
- Contractual measurements such as load-pull, linearity, high impedance probe in both frequency (VNA) and time domain (LSNA)

**Research Associate - Visiting Scholar** University of Colorado at Boulder*February 2012-July 2012*

GaN HEMTs based rectifiers characterizations and analysis

**Research Engineer (CNRS) XLIM***May 2005-November 2007*

Achievements :

- Frequency domain load-pull measurement setup (VNA in receiver mode with pulse capabilities) developemnt with Scilab (calibration procedures, measurement automation, data processing)
- Large signal characterization of transistor (mainly european GaN in the framework of Korrigan)
- Korrigan WP3.3 workpackage leader in Korrigan. Developpement of a internet database (Php / mySQL) to let partners share data and informations
- GaN HEMTs "spice-like" nonlinear models

**Research Engineer** NMDG Engineering bvba*November 2004-February 2005*

Implementation of the High Impedance Probe module (calibration and measurements) in the commercial LSNA Software (based on Mathematica)

**Postdoctoral scientist** CNES (French Space Agency)*October 2003-September 2004*

Development of characterization tools interfaces within the free open-source scientific package Scilab

**Postdoctoral scientist** CNES (French Space Agency)*October 2002-September 2003*

Achievements :

- Large Signal Network Analysis (LSNA) characterizations in time-domain
- Development of a new LSNA module in order to investigate time domain waveforms at internal nodes of MMICs with high impedance probes (HIP) to validate circuits designs and to analyze nonlinear parametric stability
- Large Signal Network Analysis (LSNA) characterizations in time-domain

**Researcher** IRCOM / University of Limoges*October 1998-September 2002*

Achievements :

- Development of the RF time-domain envelope measurement setup (hardware and software)
- Development of the calibration procedure of the time-domain envelope measurement setup
- Power amplifiers characterizations : Load-pull, IM3, NPR
- Behavioral modeling of nonlinear devices with memory effects for system level
- Development of a dynamic complex gain model with neural networks

**Lecturer** University of Limoges*October 1998-September 2002*

RF devices, analog/digital communication systems, signal processing, propagation waves...

**Postgraduate student** IRCOM / University of Limoges*February 1998-July 1998*

Circuits level simulations of IM3 and NPR in order to optimize the trade-off between linearity and efficiency