Bogdan Gorelkin

A graduated IoT specialist, ready to use my skills for the benefit of a corporate world. Open to research positions.

Inspired by building devices and automating processes, I have acquired knowledge in the fields of Embedded Systems, IoT, Wireless technologies, Information Security, Robotics and Data science. I am a fast learner, eager to explore more advanced topics and deepen into specific questions.

I have a hands on engineering and programming experience as well as theoretical research competencies. I use both head and hands.

Contact:

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Language skills

Russian — Native

English — Upper-Intermediate (B2)

French — Intermediate (B1)

German — Beginner (A1)

Technical skills

- C / C++
- Python
- Matlab
- Html / CSS
- BIP[1]
- VisibleSim[2]
- Hardware/Firmware engineering
- Machine Learning
- Data analysis
- Git & Markdown
- LaTeX & MS Office

Interested in

- Embedded Systems
- Wireless technologies
- Information Security
- Robotics
- Programmable matter
- Data science

EDUCATION

2021 2020	Masters program	Internet of Things *UTBM, Montbéliard (France)*
2020 2019	Double Master's Program	Wireless Embedded Technologies *Polytech de Nantes, Nantes (France)*
2019 2018		Infocommunication Technologies and Communication systems *TUSUR, Tomsk (Russia)*
2018 2014	Bachelor program	Audio Visual Technology *TUSUR, Tomsk (Russia)*

EXPÉRIENCE

Présent 2021/09	Technical assistant (part-time)	▪ Modernization of premises and implementation of creative intelligent solutions *Lasphère (Paris)*
2021/09 2021/03	Developer-designer of modular robots with dynamic configurations (intern)	▪ Creation of rules for the behavior of modules and their interaction with neighbors (deterministic finite automata). ▪ Programming of modules in a language performed for component systems. *Inria (Lille)*
2021/12 2021/10	Programmer - researcher in self-reconfigurable robotic systems (research student)	▪ Boosting of the time synchronization protocol for modular robots. *Femto-ST (Montbéliard)*
2020/07 2020/01	Developer - researcher in the security of embedded devices (intern)	▪ Investigation des vulnérabilités du crypto-algorithme RSA via des canaux secondaires lorsqu'il est implémenté sur un microcontrôleur STM32. *IETR (Nantes)*
2020/07 2020/01	Weekend school math teacher for bilinguals (part-time)	▪ Creation of programs and teaching of courses. ▪ Organization of international events. *Russies étonNantes (Nantes)*

1. BIP - the programming paradigm for component-based systems
2. VisibleSim - a framework for creating behavioral simulators for modular robotic systems based on distributed networks