Bogdan Gorelkin

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EDUCATION AND TRAINING

2020 - 2021 - Master of Internet of Things

- Université de Technologie Belfort-Montbéliard, Montbéliard (France)

2019 - 2020 - Master of Wireless Embedded Technologies

- Polytech of Nantes, Nantes (France)

2018 - 2020 – Master of Infocommunication Technologies and Communication Systems

- Tomsk State University of Control Systems and Radioelectronics, Tomsk (Russia)

2014 - 2018 – Bachelor of Audio Visual Technology

- Tomsk State University of Control Systems and Radioelectronics, Tomsk (Russia)

2012-2013 – student of School no.15

- Secondary School no.15 I-III levels of the Odessa City, Odessa (Ukraine)

2003 - 2014 - student of Gymnasium no.6, with in-depth study of the German language

- Municipal Autonomous Educational Institution Gymnasium №6, Tomsk (Russia)

WORK EXPERIENCE

October 2020 - December 2020 - work in a group research project, UTBM, France:

- implementation of Modular Robot Time Synchronization Protocol (MRTP);
- building a program under the ubuntu operating system;
- embodiment of modeling in VisibleSim on Blinky Blocks;
- experience of online working in an international team.

January 2020 – July 2020 - embedded technology engineer, Polytech de Nantes, France:

- design of experiments in the field of embedded technologies;
- conducting experiments on the stm32 microcontroller;
- realization of the cryptography algorithm on microcontrollers
- analysis of correlations using statistical methods and presentation of results;
- experience of working in an international team.

September 2019 – June 2020 - educational center for bilingual children “Russies étonNantes”, Nantes, France:

- preparing and conducting lessons in mathematics and computer science for bilingual children;
- remote customer support;
- organization of international events in Nantes.

September 2018 – June 2019 - work in the laboratory of Radio Optics department in TUSUR, Tomsk:

- channel modeling N-BCCH Narrow band IoT downlink physical layer design;
- research of Narrowband Internet of Things technology for telemetry devices with low data exchange volumes;
- development of algorithms in Matlab environment.

September *2016 – May 2018* - work in the laboratory of the TU department under the leadership of A.N. Dementyev at TUSUR, Tomsk: development of a video surveillance system with broadcasting to the Internet portal

- calculation of outgoing traffic by camera parameters;
- selection of the necessary components for a video surveillance system;
- creating a drawing of a video surveillance object;

development of algorithms in Matlab environment

March 2017 – August 2019 - driving instructor, "Auto-Class", Tomsk;

Teaching basic driving skills using virtual reality

Training in emergency driving and behavior in stressful situations

June 2016 – February 2017 - part-time work in the field of food supply.

Publications and conferences

- *Gorelkin B.K., Rogozhnikov E.V. Asymmetric RSA encryption algorithm on stm32f070rb microcontroller* // "Scientific session of TUSUR - 2020" 25-27 May 2020, Tomsk;
- *Gorelkin B.K. Description of the N-BCCH NB IOT DOWNLINK PHYSICAL LAYER DESIGN channel modeling steps* // "Scientific session of TUSUR - 2019" 22-25 May 2019, Tomsk (3rd degree diploma);
- *Tselishchev D.V., Gorelkin B.K. Research of the cost price of VHF FM receiver with various component bases // Actual directions of scientific research: development prospects, April 23, 2018, Cheboksary;*
- participation in the educational lecture “Directions of development of wireless communication systems”, September 13, 2018.

Technical skills

- C/C++;
- Python;
- Matlab;
- Autodesk;
- Keil.

Language skills

- Russian (native)
- English (B2)
- French (A2)
- German (A2)

Additional Information

- Winner of the Best TUSUR Graduate Competition
- Scholarship holder at all stages of study
- Interested in further academic career
- Ready for global and local moves
- Sociable, able to adapt