

# Mikhail Kotyushev

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## Education

### University

- Sep 2018 - **Computer Science, Master**, *Moscow Institute of Physics and Technology, Moscow*,  
Today <https://mipt.ru/>.  
Department of Innovation and High Technology, Chair of Data Analysis
- Sep 2014 - **Physical Informatics, Bachelor (4.5 GPA)**, *Novosibirsk State University, Novosibirsk, Russia*,  
Jul 2018 <https://www.nsu.ru/>.  
Physical Department, Chair of Automation of Physical and Technical Research

### Additional Education

- Sep 2018 - **Data scientist student**, *Yandex School of Data Analysis, Moscow, Russia*,  
Today <https://yandexdataschool.ru/>.

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## Experience

### Job

- Sep 2017 - **Laboratory assistant**, *Laboratory of Nonlinear Optics of Guided Wave Systems*,  
Oct 2018 *Novosibirsk State University, Novosibirsk, Russia*,  
<https://research.nsu.ru/>.  
Automation of experiments in fiber optics field. Research in Fiber Bragg grating sensors applications.
- Sep 2017 - **Junior embedded systems engineer**, *Femtotech, Novosibirsk, Russia*,  
Oct 2018 <http://femtotech.ru/>.  
Software development for embedded systems in commercial projects.
- Jan 2015 - **Junior laboratory assistant**, *Laboratory of Fiber Optics*,  
Sep 2017 *Institute of Automation and Electrometry of SB RAS, Novosibirsk, Russia*,  
<https://www.iae.nsk.su/>.  
Automation of experiments in fiber optics field.

### Side projects & internships

- Jan 2019 - **Embedded systems engineer**, *Xumanless, Moscow, Russia*.  
Today Hardware development for technological startup company.
- Dec 2017 - **Intern C++ developer**, *Inversion Sensor Co., Novosibirsk, Russia*,  
Jan 2018 <https://i-sensor.ru/>.  
Single project internship. GUI based SSH-client wrapper for linux server configuration.

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## Technical Skills

- Languages C++ (medium), Python (high)
- Skills Microcontrollers programming, electrical engineering & circuit prototyping, mathematics & algorithms

Other Linux, git, LaTeX

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## Research Experience

### Course works & bachelor thesis topics

- CW **Parameters measurement of femtosecond radiation inscribed fiber Bragg gratings with different core coverage area,**  
[https://www.dropbox.com/s/8s03xu1v5nwszyf/cw\\_4\\_sem.pdf](https://www.dropbox.com/s/8s03xu1v5nwszyf/cw_4_sem.pdf).
- CW **Laser beam positioning system for femtosecond core-scanning fiber Bragg grating inscription scheme,**  
[https://www.dropbox.com/s/jo1lzc3vvb3od8h/cw\\_6\\_sem.pdf](https://www.dropbox.com/s/jo1lzc3vvb3od8h/cw_6_sem.pdf).
- Diploma thesis **Acquisition system for bending sensor based on multicore optical fiber,**  
[https://www.dropbox.com/s/malqp8sja192m6g/diploma\\_thesis.pdf](https://www.dropbox.com/s/malqp8sja192m6g/diploma_thesis.pdf).

### Publications & Conference

**Femtosecond pulse inscription of FBGs in multicore fibers and their applications,**

*2018 International Conference Laser Optics (ICLO),*

<https://doi.org/10.1109/L0.2018.8435450>.

**Femtosecond core-scanning inscription of tilted fiber Bragg gratings,**

*SPIE - The International Society for Optical Engineering,*

<https://doi.org/10.1117/12.2307132>.