

I am a young and enthusiastic software developer with a background in the aerospace industry and electrical engineering. Since early high school, I've been coding flight software for CanSat satellites in pure C. My pet projects include home automation systems, websites and model rocket payload electronics. Be sure to check out my flagship project - a real-time operating system kernel for 8-bit microcontrollers.

As I have just graduated from school, I may not have much experience in the field, but this is one of my key advantages - I can learn fast. Because of my aerospace background, I fear no challenge and can perform complex tasks in most stressful environments.

## SKILLS

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| <b>Tools and Languages</b>    | C, Assembly (AVR, x86), Python, Git, L <sup>A</sup> T <sub>E</sub> X, HTML/CSS |
| <b>Electrical Engineering</b> | KiCad EDA, Proteus 8, LTSpice, Verilog   |
| <b>MCU Architectures</b>      | AVR8, Cortex-M0 (STM32), Cortex-M3 (SAM3X), Cortex-M4 (STM32)                  |
| <b>Communication</b>          | English (C1), Russian, Cat 2 Russian Amateur Radio License                     |

## TECHNICAL EXPERIENCE

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| <b>Electrical Engineering Lead / YKTSAT-1 CubeSat</b><br><i>Sakha Aerospace Systems, LLC</i> <ul style="list-style-type: none"><li>• Payload electronics design.</li><li>• Flight software development in C.</li><li>• Ground station operations, radio communication and satellite control.</li><li>• Documentation handling, management and project supervision.</li></ul> | <b>Jul 2020 — Present</b><br><i>Yakutsk, Russia</i>  |
| <b>Tutor / Yakutsk International Research School</b><br><i>Sakha Junior Science Academy</i> <ul style="list-style-type: none"><li>• Student project supervision in aerospace science.</li><li>• Teaching C programming basics, electrical engineering, electronics assembly.</li><li>• Papercraft rocketry.</li></ul>  | <b>Aug 2021 — Sep 2021</b><br><i>Yakutsk, Russia</i> |
| <b>Intern - Junior Software Developer</b><br><i>Sever Information Security Center, LLC</i> <ul style="list-style-type: none"><li>• Website fullstack development, Flask/Python.</li><li>• Backend development, email malware filter in Python.</li><li>• Network and system administration, VMware ESXi management.</li></ul>  | <b>Mar 2020 — Jun 2020</b><br><i>Yakutsk, Russia</i> |
| <b>Intern - Electrical Engineer</b><br><i>Shafer Institute of Cosmophysical Research</i> <ul style="list-style-type: none"><li>• Electronic circuit design, assembly and repair basics.</li><li>• Working with satellite communication equipment, radio communication basics.</li><li>• High energy particle physics course.</li></ul>                                       | <b>Jun 2019 — Nov 2020</b><br><i>Yakutsk, Russia</i> |

## EDUCATION

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| <b>High School, V.P.Larionov Physics &amp; Technical Lyceum</b> | 2012 — 2020 |
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## ACTIVITIES

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| MSU Aerospace Engineering School (RosCanSat competition) - Team Leader / Programmer              | 2018 — 2020 |
| Space-Oriented Learning for Americans and Russians (SOLAR program) - Finalist                    | Summer 2020 |
| Scientists of the Future International competition of research and engineering projects @ Moscow |             |
| Research Presenter, 3rd place  | Fall 2019   |
| National Taiwan University Science Innovation School - Student, Research Presenter               | Summer 2019 |
| "Big Challenges" All-Russian project competition @ Sirius Center - Finalist                      | Summer 2019 |
| International Science Youth Forum, Hwa Chong Institution @ Singapore - Research Presenter        | Winter 2018 |
| WorldSkills Russia Finals in Space Systems Engineering @ Moscow - Participant, Silver award      | Winter 2018 |
| National Children Science Congress @ Gandhinagar, India - Research Presenter                     | Winter 2017 |
| Asia-Pacific Conference of Young Scientists @ Kathmandu, Nepal - Participant, Gold award         | Winter 2017 |