

Subject: Application for Internship Opportunity

Dear Sir/Madam,

My name is Vladimir Gukasian, and I come from a small town in Armenia. When I was three my parents made the decision to relocate to Pskov, Russia, aiming to build a new life in a country that offered more economic and social stability than Armenia. This significant transition marked a pivotal point in my life.

Until the 7th grade, I attended the linguistic gymnasium, that focused primarily at learning languages - Russian, English, German, and French. Having studied languages for seven years, I discovered a stronger affinity for sciences: mathematics and physics. Fortunately, the best school in our city offered an advanced curriculum in sciences and admitted students from the 8th grade. I dedicated myself to studying physics, mathematics, and chemistry, excelling in municipal and regional levels of official competitions for secondary school students in these subjects, eager to absorb as much new information as possible.

It was at the same time when I became aware of the *Moscow Institute of Physics and Technology (MIPT)*. Encouraged by my physics teacher, who spoke highly of MIPT and motivated me to join the ranks of its successful students, I intensified my preparations for both above-mentioned competitions and national school-leaving exams. In my final year, an accidental discovery of Isaac Asimov's "Foundation" trilogy transformed my interests. Engrossed in scientific fiction throughout that summer, my mind became consumed with thoughts about artificial intelligence and programming - subjects I hadn't previously considered.

The turning point of my academic journey was my participation in five final levels of official competitions for secondary school students (mathematics, physics, and informatics) at the national level when I was in the 11th grade. Unfortunately, I narrowly missed securing my place at MIPT, which is granted to the winners. This setback initially affected my motivation, however, the unwavering support from my family, teachers, and friends revived and enhanced my determination. I rallied, excelled in my national school-leaving exams, and secured admission to MIPT to the *Engineering and Computer Technology Department* which offers a perfect balance of physics, programming and mathematics.

My studies at MIPT have been intense and strenuous but immensely rewarding. I excelled in all subjects in my first year, becoming one of the top students in my cohort and completing an advanced course in systems programming from one of our university's esteemed instructors. This achievement earned me an invitation for an internship at the Institute for System Programming of the Russian Academy of Sciences, where I now officially work as a lab assistant.

My work primarily focuses on developing fuzzers and tools for neural network fuzzing, a field I have been passionate about since high school. Ensuring the proper functionality of neural networks, especially given their widespread applications in healthcare and beyond it, is of paramount significance. Detecting vulnerabilities in these networks is crucial, and my current work aligns perfectly with this goal.

In terms of my qualities, I pride myself on being goal-oriented, forward-thinking, and quick to analyze and make decisions in critical situations. My commitment to sports not only toughens my character but also sharpens my ability to process information. Proficiency in English has become second nature to me due to its prevalence in IT literature and the international character of the MIPT environment.

Regarding the internship opportunity, the selected fields closely align with my dreams, ideas, and life goals. Your university offers a guarantee of quality education, professional skills, and engaging networks. This internship presents an unparalleled chance to enhance my professional skills, engage with the global community in my field and contribute to the international scientific community of my chosen area. My ambition is to be engaged in collaborative scientific endeavors with the individuals I hope to meet during the programme.

I believe that learning opportunities at your esteemed institution will not only benefit me personally but also foster better international relations within the scientific community, possibly extending its positive impact on the Institute where I am currently employed.

I am sincerely grateful for your consideration and the opportunity to apply for this internship. I am eager to bring my enthusiasm, dedication, and skills to this program and contribute positively to its objectives.

Thank you for your time and consideration.

Faithfully,

Vladimir Gukasyan