Dinmukhamed Zhangaskanov

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Personal statement

Dear Sir/Madam,

My name is Dinmukhamed Zhangaskanov and I am writing personal statement in order to express my interest in studying at the Master of Mechanical and Aerospace Engineering.

I was always interested in the aerodynamics and tried to construct some airplanes in the childhood. Therefore, the factors which have motivated me to choose Mechanical Engineering major for my bachelor degree were the possibility to study mechanics of the air vehicles and aerodynamics and the good reputation of high-quality education standards, an extremely distinguished faculty members, and research facilities. The internship in Air-Astana enhanced my passion to the aircrafts and for this reason I chose my electives to be connected with Aerospace Engineering. Thus, the deep knowledge of these subjects demonstrated by professors in Mechanical Engineering department was one of the main reasons for application to the Master’s program in Mechanical and Aerospace Engineering.

During my bachelor study my interest to the aviation was complemented by Computer Aided Design (CAD), Computational Fluid Dynamics (CFD), and programing. Moreover, my capstone project was chosen to connect all three components, listed above. The topic of my capstone project is “Automated CAD generation of ready-to-build design of single stage centrifugal pump”, and I am motivated to continue the work on the Master’s program.

As arguments of my suitability for the Master’s program, the following can be mentioned to indicate my professional experience.

While I passed internship in Air-Astana, I was responsible for pre-flight and after flight check, aircraft marshalling, daily and weekly aircraft maintenance. During undergraduate study I was involved in a number of projects, where I contributed my knowledge of simulation programs such as ANSYS CFX and SolidWorks flow simulation for 2D simulation of a turbulent flow, ANSYS static structural and ANSYS harmonic response for simulation of microvibrations in a honeycomb structure, SolidWorks simulation for studying of a crack propagation, and PyroSim for simulation of a smoke flow in a room with induced air flow. I successfully used VBA programing language for construction of CAD models for the capstone project.

In future, I want to work at Research and Development department in Aerospace Engineering. In order to be the competent and competitive expert, I want to apply for the Master Degree in Mechanical and Aerospace Engineering. In addition, I am planning to contribute my existing skill in research during my study in Master’s program and further develop my capstone project. I would approach to the assignments responsibly and I am always opened for the feedback.

Thank you for considering my application.

Sincerely,

Dinmukhamed Zhangaskanov