

To whom it may concern:

It is my pleasure to write this statement to show my interests, motivations and future goals.

"Be the change that you wish to see in the world" -Mahatma Gandhi

I have always believed that the first step in changing the world, starts with myself. I always try my best and have a purpose in each step I take in life. Throughout my twelve years of school, I was always among the top 3 in my classroom, and most of the time I was top of my class. I began playing chess when I was seven years old and as a chess player, I have equipped myself with the skill of interpretation and tactical analysis of different issues. Playing chess served as a bridge to mathematics because to me, mathematical problems were like chess positions. As chess sparked my interest in mathematics, I have enjoyed solving mathematical problems in different ways. Based on my interest and abilities, my best subjects included mathematical fields and focus on its concepts. For example, in high school, I discovered a newfound interest in physics, within two important courses, engineering was introduced to me. I studied to be an engineer throughout the remainder of my high school career.

The first building block that sparked my desire in engineering was my first program that was a simple game. When I studied at high school, my classmates playing computer games. The game was not attracted me but I interested about how this game has been produced. Then I bought a C programming language book and I developed my first Hello World in software engineering through a simple game. That was one small step for me, one giant leap for my future life. In chess, it is ideal to find the best solution and the best plan to execute that solution in a short period of time. In real-life situations, I understand how I should analyze and deal with obstacles. My goal is to find the best way that improves Computer Science and also have an impact in the world. During my high school career, I've learned how to research effectively and found information regarding different ways to implement new software. As I have an overwhelming interest in mathematics, I chose this field in my high school studies and following that trend, I always thought about a field that has a relationship between Computer Science and mathematics. I found Software Engineering and it was my goal to find a way to improve my knowledge about Computer Science, thus I studied and tried my best to be accepted into the University of my choice. In June 2004, I got my high school diploma with honors in Mathematics-Physics with a total GPA of 19.56/20. To enter public universities in Iran, which are highly regarded in and out of the country, every student has to pass an entrance exam at the end of your 12 years

of study. According to my goals, I was going to pass the Iranian University's Entrance Exam (KONKOUR). At the time, some universities had the field I was interested in, so it seemed difficult to compete with 350,000 enthusiastic students. I tried harder to reach my desire. By my exemplary rank in KONKOUR and as recognition, I was granted a full scholarship to study in the Sistan and Baluchestan University for an undergraduate program, the result of my dedication and hard work.

Pursuing my strong interest in Computer Science has over the years enabled me to develop keen analytical and reasoning skills. Through the course of the four-year Bachelor of Science (BS) degree program in Software Engineering at the prestigious Sistan and Baluchestan University, I acquired an overall perspective of this scientific discipline, with a particular interest in undergraduate courses in Data Structures, Software Engineering, Algorithm Design, Theory of Computation, and Advanced Programming were some of the other areas that captured my attention. I learned a lot from such courses during my undergraduate program at my university. Courses like Software Engineering were related to the design of software which gave me a clear standpoint about the architectural patterns of design and development of software. Other courses, like Algorithm Design, made me familiar with the role of mathematics in software engineering. Also, working in labs taught me to work in a group and cooperate with others. Labs taught me the importance of practical work, besides contemplating theories. I completed my coursework in the Iran Regional Electricity Distribution Company, which significantly contributed to my expertise deep understanding of distributed systems.

After I finished the undergraduate program, I understood that I was not satisfied yet. I thoroughly enjoyed studying, working, and constantly expanding my knowledge. I enrolled in a graduate program and tried to reach my goals. Making an impact in the world was a desire that I felt I should reach, I found that working hard and doing my best was the foremost tool. Not too long after, I had an entrance exam and was presented the chance to study in one of the best universities in Iran. I was granted a full scholarship to study at the Shahid Beheshti University in the graduate program in Software Engineering. During the graduate program, I redirected my enthusiastic endeavors to software engineering concepts, including Distributed Systems, Advanced Software Engineering, Software Architecture, Service Oriented Architecture, and Organizational Architecture of Information Technology. From advanced perceptions of mathematics, first, come in understanding the whole concept. These professional courses showed my familiarity with new fields and gave me deep insight into the

relationship between mathematics, engineering, and Computer sciences. For my different courses, I did different projects via programming languages like C++, Java, C#, and JavaScript. These projects were mainly about Distributed Systems, Data mining, Data Visualization, and Image Processing.

After graduation, I realized that I was actually only getting started on my research interest in Computer Science. That I wanted to go the distance and gain further insight into the applications of software engineering propelled me to work in high-tech companies with various applications and technologies. During this period, I have held positions that involve every aspect of the software development life cycle from business analysis and architecture design to advanced debugging and low-level optimization. I was also deeply involved in Distributed Software and contribute extensively to the design, development, and integration of enterprise software systems. Both my professional experience and participation in the research and study on modern and distributed architectures have reinforced my passion for building workflow engines to enable organizations to create high-performance software. I want to continue to enhance these skills as well as explore emerging technologies in the distributed systems. For the past two years, I have served as the Lead Software Engineer for a banking company, overseeing the work of a half dozen software developers. In this capacity, I implement the integrated workflow management systems for managing tasks and teach software engineering methodologies for building these complex systems. In particular, I am interested in applying architecture on distributed systems. Furthermore, I participated in ACM courses in research institutions about two years to learn the developing high-quality software. All these experiences convinced me that my interests lie within applicable ideas that have a strong theoretical foundation. I especially enjoyed Parallel Computing and their applications in Distributed Systems. I have completed projects, won contests, and published papers in the field of Distributed Systems.

During my undergraduate and graduate lifetime, I personally matured and understood how to live independently. I lived in the dormitory and it turned me into a more self-confident boy who could decide independently. Discipline and helping others are the other things that I've learned. Among my accomplishments, I served as a volunteer cultural adviser for freshman students of Shahid Beheshti University's dormitory. I always try to enjoy life every second and moment.

The everyday growth of science and technology inspires me to complete my significant former efforts in search of a better and more diverse future.

Considering the USA's appetite for science all over the world, I chose the USA as my destination. My aim in life is to accumulate this diverse knowledge from all over the world.

Now, I have immense motivation to take the next steps toward my ambitions and future by attending an advanced graduate school for a Ph.D. program. I believe that the Software Engineering Ph.D. program will help me acquire the versatility needed to reach my full potential as an engineer. It would be a great privilege to be able to continue my journey to graduate with adequate financial assistance as a student and a researcher in the field of Software Engineering. Rutgers University has been recognized for their scientific achievements and service, as evidenced by the Research in Advanced Laboratories, so it really inspired me. Rutgers University impressed me for many reasons. First, this University member work on exciting high-tech projects. Second, the opportunity to study under the wing of expert professors at Rutgers. And third, the professors at this University are renowned and well-known for their researches in the Software Engineering, which can broaden horizons in Computer Engineering research for me. Fourth, studying and living in the United States will allow me to improve the global and social values that construct me. I think besides my theory and practical experiments which I learned in my bachelor and master programs and my professional experience, working on my favorite research areas which exist in Rutgers University will make me well-trained in software engineering. I found Prof. Matteo Turilli and Prof. Shantenu Jha research interests very stimulating, thus I contacted Professor Matteo Turilli ahead of time and after that, I kept in touch with him and I provided some materials included my projects, thesis, and my writing samples to him. Then, we had conversations and Skype meeting about a shared interest of areas. His current research about Parallel Computing, Software Design for Distributed Infrastructures, and Designing Workflow Systems helped me decide quickly and I gained interest to apply to the Rutgers University. It would be an honor to work under the supervision of Professor Turilli. I believe that the Department of Computer Engineering at the Rutgers University will satisfy my strong desire and drive to work and research in the area of Software Engineering. I am aware that Rutgers University expects very high standards from its students. On my part, I can assure you of hard work and motivation. Based on my consistency in all previous academic, co-curricular activities, and professional experience, I believe that my enthusiasm and confidence will enable me to meet those expectations. Regarding my experience, I am looking forward to working with these professors and I hope they will support me in achieving my ultimate goal.

In my future life, I would love to continue my career as a researcher even after I receive my Ph.D.; it is greatly satisfying when one can engage in solving new problems and find solutions for them to help other people have a better life. My main goal is to become a researcher in an academic environment or in R&D of an institute. In the meantime, I would like to be a research assistant at the university and do serious researches parallel to taking several required and elective courses.