



Ministry of Science, Research
and Technology

Sirjan University of Technology



Islamic Republic of Iran

DATE:

No.:

Enclosure(s):

To Whom It May Concern:

It is with great pleasure and enthusiasm that I write this letter of recommendation in support of Ms. Zahra Amini's application for the Master's program at your esteemed university. I had the pleasure of working closely with Ms. Amini for two years, from February 2019 to February 2021, at Sirjan University of Technology. During this period, I served as her undergraduate thesis supervisor and witnessed her exceptional growth. Beyond her studies, she became an integral member of my team, serving as both a Teaching Assistant and a Research Assistant, roles in which she consistently exceeded my highest expectations.

Ms. Amini's technical abilities and mastery of fundamental concepts were evident throughout her coursework and projects. Her undergraduate thesis, titled "**Large-scale Semantic Point Cloud Segmentation with Superpoint Graphs,**" achieved a perfect score of 20 out of 20. In my "Speech and Language Processing" course, she distinguished herself not just by her grades, but by her intellectual rigor. Unlike many students who rely solely on pre-built libraries, Ms. Amini insisted on mastering the underlying mathematics. She implemented complex machine learning algorithms, such as Logistic Regression and Neural Networks (including full Backpropagation), entirely from scratch. This dedication to foundational understanding is a rare and valuable trait. For the final project of this course, titled "Spoken Digit Recognition," she adopted an innovative approach. By utilizing MFCC feature extraction and classical algorithms like Gaussian Mixture Models (GMM), she was able to classify audio signals with high accuracy, demonstrating her solid understanding of signal processing before moving on to complex models.

The most prominent aspect of my collaboration with Ms. Amini was her work as a Research Assistant in my laboratory for over two years. She focused on "Point Cloud Processing" and, inspired by existing literature, took on the responsibility of developing and implementing ideas based on Kernel Correlation. The main challenge of this research was working with unstructured and unordered 3D data, which required permutation-invariant architectures.

Ms. Amini, with her command of **Python** and frameworks such as **PyTorch** and **TensorFlow**, successfully reproduced existing methods and compared them with state-of-the-art architectures like PointNet and DGCNN on standard ModelNet40 datasets.

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Her ability to study current papers and implement intricate mathematical concepts for Local Feature extraction indicates her high potential for conducting research and producing innovative papers. Moreover, her dedication and perseverance in pursuing the lab's research goals, as well as her punctuality in presenting results and advancing projects, are exemplary. She is, without a doubt, one of the most capable undergraduate students I have mentored.

In addition to her research skills, Ms. Amini proved her ability to convey concepts and communicate effectively as a Teaching Assistant (TA) for "Basics of Programming" and "Advanced Programming" courses. For about two years, she was responsible for teaching complex C and C++ concepts, such as Memory Management (Pointers) and Object-Oriented principles (Polymorphism, Inheritance). During the COVID-19 pandemic in 2020, she played a significant role in maintaining the quality of education by managing online classes, conducting precise Code Reviews, and teaching Clean Code practices. Furthermore, administering and grading quizzes were among her key responsibilities as a TA, which she handled with exemplary diligence and care.

Given her brilliant background in learning, research, and teaching, I recommend Ms. Amini without hesitation as one of the most talented students for the Master's program in your department. I have no doubt she will be a valuable asset to your department and will thrive in your Master's program. I recommend her to you in the strongest possible terms.

Warm Regards,

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