NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY

Department of Mechatronics Engineering
College of Electrical and Mechanical Engineering
Rawalpindi, Pakistan

Date: 30 May 2022

Recommendation Letter for Mr. Faran Masood Peerzada

I am pleased to recommend Mr. Faran Masood Peerzada for admission to Ph.D. He had known me since 2017, when he got enrolled in the Master's degree program (2017-2020) in the Department of Mechatronics Engineering at the College of E&ME, National University of Sciences and Technology (NUST) Islamabad, Pakistan. As part of the program and as per his interest, Faran took my courses related to Machine vision. His critical thinking and curiosity to know more about the subject impressed me greatly. He also showed excellent teamwork skills in group assignments during the coursework.

Faran then approached me to discuss his research proposal titled "*Evaluation of High-Resolution Airborne Imagery for Mapping Invasive Weeds in Crops*" and requested that I supervise him. His proposal was based on the modern-day scenario and needed extensive research. I accepted his request to supervise because I was amazed by his passion and love for research. He showed excellence during his research period.

During the research period, Faran was very organized and efficient. He improved his technical and research skills under my supervision. He was highly proficient in applying the course knowledge in analyzing the problem situations. He went beyond the course requirements and put extra effort into improving the quality of his thesis through extensive research and discussion with me. He made a significant impact in the department by submitting a well-researched and well-organized thesis.

Faran has a strong background in Image Processing and Machine Learning. His research interests include Remote Sensing, issues related to Precision Agriculture, and Data Science. He is also skilled in Drone Flying, Data Labeling, Data Harmonization, and other Remote sensing tools, i.e., QGIS. He is good at programming in Python and MATLAB. His expertise in LaTex, MS office, is commendable.

Faran has splendid communication skills. His written work is clear, concise, and enjoyable to read. Faran has a down-to-earth, well-behaved, and docile nature; while adhering to rules and regulations. He is an analytical thinker and is stimulated by new academic challenges. Hectic timelines, various constraints, harsh work conditions, and multitasking along the way are things that he can tackle with ease while delivering work seamlessly. Faran has the competence, perseverance, and intellectual abilities needed to complete an advanced research degree, which makes him undoubtedly a well-deserving candidate for the Doctoral program at your Institute.

I would, therefore, highly recommend Mr. Faran Masood Peerzada as a Doctoral Candidate at your university. He would be an asset to your university. If you have any queries regarding research, academics, or other areas about Faran's candidature, please feel free to reach me.

Dr. Waqar S. Qureshi
Assistant Professor (on Sabbatical)
Department of Mechatronics Engineering,
NUST, College of Electrical and Mechanical Engineering,
Rawalpindi, Pakistan

Address: College of E&ME, National University of Sciences & Technology (NUST), Rawalpindi 46000, Pakistan
Email: waqar.shahid@ceme.nust.edu.pk; **Phone:** +92-321-1771711