

School of Mechanical & Aerospace Engineering

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21st May 2023

To Whom It May Concern,

I am writing this letter of recommendation to wholeheartedly recommend Mr. Shivansh Mittal for further education at the master's level as well as a career as a Computational Fluid Dynamics (CFD) engineer. I had the privilege of supervising him during his final year research project (FYP) focused on "Hydrodynamic performance optimization of horizontal Pinwheel and vertical Savonius tidal turbines using CFD" as his Ph.D. supervisor. His research project aimed at validating the novel moment balancing theory proposed in my Masters' thesis submitted to University of Edinburgh, Scotland.

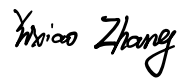
He showed remarkable dedication, competence, and enthusiasm throughout his time. He approached the project with a genuine interest in CFD and quickly became adept at applying theoretical concepts to practical engineering problems.

During our collaboration, he exhibited his ability to grasp complex fluid dynamics phenomena and implement them in computational simulations, delivering outstanding results in a relatively short time. His intellectual curiosity and meticulous attention to detail were instrumental to the project, and as a result, we were able to submit two research papers to prestigious conferences such as Global Power and Propulsion Society (GPPS) and The International Green Energy Conference (IGEC-XV) held at Hong Kong University (HKU) and University of Glasgow respectively.

One of Mr. Mittal's differentiating qualities was his proactive approach to communication and project management. He demonstrated great initiative by providing regular updates during our weekly meetings, ensuring that our research progress remained on track. His unwavering commitment to the project, ability to work independently and meet deadlines without compromising the quality of his work was particularly noteworthy. Apart from his exceptional academic abilities, he possesses great patience during the teamwork that make him an ideal contributor for further academic or professional collaboration. He is a kind and respectful individual who maintains a positive attitude in stressful situations and is adept at working within a team environment.

In conclusion, I wholeheartedly recommend Mr. Shivansh Mittal for further studies at the master's level and for pursuing a career as a CFD engineer. I have no doubt that he will excel in both due to his remarkable dedication, aptitude and interest in engineering supported with his experiences and achievements during his undergraduate. Should you require any additional information regarding Mr. Mittal or his qualifications, please do not hesitate to contact me at yixiao002@e.ntu.edu.sg. I highly endorse Mr. Mittal's application and believe he has a bright future ahead.

Sincerely,

A handwritten signature in black ink that reads "Yixiao Zhang". The signature is written in a cursive, flowing style.

Mr. Yixiao Zhang

Ph.D.(IGP-COLLAB. INITIATIVE) Batch 2021

Department of Mechanical Engineering

Nanyang Technological University