Nitte Meenakshi Institute of Technology

(A Unit of Nitte Education Trust (R), Mangalore)

An Autonomous Institution

Accredited By National Board of Accreditation (AICTE), New Delhi

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Ref. No.: Date.:

LETTER OF RECOMMENDATION

Dated: February 27th, 2013

TO WHOMSOEVER IT MAY CONCERN

Mr. Rakesh. has been known to me since January 2009, when I first taught them an undergraduate course on Heat and Mass Transfer as a core subject in their 6th Semester curriculum. In his 8th semester during February-May 2010, Rakesh, has also carried out his final year project in the area of Computational Fluid Dynamics (CFD), under my direct supervision with great enthusiasm. Prior to the project work, he has also participated very actively in the special series of lectures on CFD, offered by me as preparatory lessons for the technical project work carried out on CFD in the final semester. He was the most enthused and diligent project student this semester to attend the lectures and the relevant hands-on-sessions covering the latest CFD topics like turbulence modeling, boundary-fitted grid generation, special purpose post-processors etc.

I state, without any hesitation, that Rakesh is one of my best students and he definitely comes amongst the first 5% of the students I taught so far. Rakesh always has keen interest to learn engineering subjects involving extensive applications of the basic theories of Physics and Mathematics. Besides the regular classes of the last few semesters, he has successfully completed the specific tasks assigned to him on the technical project entitled "*Numerical simulation of Turbulent Jet in a Cross Flow* ". His major responsibilities in this project were (i) detailed review of unclassified literature on the problem, (ii) generation of suitable numerical grid using a hybrid algebraic-differential procedure,(iii) computation of the turbulent flow for different velocity ratio using an existing RANS code and (iv) validation of the flow solution algorithm against available measurement data on velocity distribution for the jet spreading in a uniform cross flow at right angle. Different aspects of this work have been compiled in the form of a technical report submitted to the university and evaluated as one of the best projects of this semester. While working as Senior Engineer for the last three years, with one of the reputed Shunting Locomotive Manufacturers of the country, Rakesh has acquired very good experience on design and analyses of complex engineering products using state-of-the-art CAE software like SOLID EDGE and IDEAS.

As his teacher for different subjects during 2009-2010, I have found Rakesh to be very sincere, intelligent, hard-working and highly motivated with sound knowledge on the latest commercial software required for analysis of relevant problems. Rakesh has always kept up a decent relationship with his fellow students and teachers in our division. Considering his good academic records, his sound fundamentals of Physics and Mathematics and his methodical approach to solve problems and explore new ideas, I strongly recommend Mr. Rakesh for pursuing his higher studies leading to Masters and PhD degree in the area of Mechanical Engineering.

I wish Rakesh all the best in his life.

Majumdar

(SEKHAR MAJUMDAR)