

Mohit Harishchandra Deshmukh

+918185861591 , mohit.bits.md@gmail.com

www.linkedin.com/in/mohit-deshmukh

ACADEMIC DETAILS					
COURSE	SPECIALIZATION	INSTITUTE	UNIVERSITY	CGPA on a scale of 10	YEAR
BE	Mechanical	BITS PILANI Hyderabad Campus	Birla Institute of Technology and Science	8.91	2017
TECHNICAL PROFICIENCY					
Software skills		Creo, AutoCAD, ANSYS (FLUENT and Mechanical APDL),Advanced Excel			
Programming skills		MATLAB, JAVA , Python			
INTERNSHIP/WORK EXPERIENCE					
1.Goa Shipyard Limited			May 2015 - Jul 2015		
The exposure to this organisation gave me basic idea of processes involved in manufacturing of war ships. In this organisation I completed a study based project on 'Connectivity Issues of Fibre Reinforced Plastic mast to Steel Hull'.					
2. Aditya Birla Group Corporate Business Excellence Pvt Ltd (Internship)			Jan 2017 – June 2017		
Projects:					
1. Determination of Optimum Parameters for a Vertical Rolling Mill: Data for six month on hourly basis timestamps was used to train the neural networks in MATLAB. Multistart function from Global optimisation toolbox was applied on the neural networks. A desktop based application was developed to predict energy consumption and determine optimum parameters.					
2. Detection and Diagnosis of Controllers: Process variable of a controller in fibre manufacturing was used as input to obtain the performance indices as defined in the literature. Spectral analysis was done to inspect the oscillations in the controller manually. The performance indices are compared to confirm the diagnosis of the controller.					
3.Cappemini India Pvt Ltd (Full Time)			Aug 2017 – Till Present		
Project: Development of an online recruitment management system using spring hibernate framework of JAVA.					
PROJECTS					
Fabrication of smart solar tracker			Oct 2015-Dec 2015		
This was a group project where we fabricated the smart solar tracker for increasing the solar intensity falling on a panel. I designed the Creo model and participated in machining of the parts.					
Universal index for assessing greenness of buildings			Aug 2015 - Dec 2015		
The aim was to develop a universal greenness index using multi-criteria decision making. The life cycle parameters of the buildings were considered.					
The method used was analytical hierarchy process. MATLAB was used for computations. The project was completed with the development of a program to assess the buildings.					
Review of research areas and applications of Shape Memory Alloys			Jan 2016 - May 2016		
This project was a review of research work in SMA. The martensitic transformations and their effect on shape memory were studied in elaboration.					
The applications of shape memory alloys in robotics were also the focus of study.					
Numerical Modelling and Simulation of Radiation Heat transfer in an enclosure			Aug 2016 - Dec 2016		
This project aimed at reducing the computational cost of determination of optimum residence time of slabs in a walking beam type reheate furnace.					
Radiation heat transfer is considered for steady state heat transfer of slabs using CFD tool FLUENT. The absorption coefficient of the mixture of gases present in the furnace is computed using weighted sum grey gas model.					
PUBLICATION DETAILS					
Performance investigation on sustainable screw turbine using computational fluid dynamics for micro and Pico-hydro applications			Mar 2017		
Published in Proceedings of the National Conference on Sustainable Mechanical Engineering: Today and Beyond, at Tezpur University, India					
Short Description: In this study, the performance of a uniformly pitched double start closed trough screw turbine is analysed for the fluid flow characteristics through variation of its operating conditions using sliding mesh method in computational fluid dynamics (CFD). The analysis gives the design of the screw turbine required for expected power output. The CFD tool used was FLUENT.					
POSITION OF RESPONSIBILITY at BITS PILANI Hyderabad Campus			Aug 2016 - Dec 2016		
Teaching Assistant, Fluid Mechanics					
ACHIEVEMENTS and AWARDS					
Recipient of institute’s Merit Cum Need Scholarship			2013-2017		
Won the Creo based design competition at college Technical Festival			2015		
Topper of the course Automotive Technology among 85 students			2016		

Oracle Certified Associate Java SE 7 Programmer I	2017
EXTRA CURRICULAR ACTIVITIES	
My team was runner up in an eight ball pool tournament at college.	2014
Active member of the cultural activity club of Maharashtra	2013-2016