

VIPUL ANAND

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EDUCATION

Indian Institute of Technology Gandhinagar, Gujarat 2016 - 2018
Master in Technology, Materials Science and Engineering Overall CGPA: 8.24

Birla Institute of Technology, Mesra 2012 - 2016
Bachelor of Engineering, Production Engineering . Overall Percentage: 73.4

Patna Central School 2012
Science Overall Percentage: 73.3

Ishan International Public School 2010
Secondary School Level Overall CGPA: 9.4

PROJECTS

Effect of in-process heat sink on distortion and residual stresses during GTAW of thin sheets 2017- 2018

Guide: Dr. Amit Arora, Indian Institute of Technology Gandhinagar, India

Description: A Transient Thermal and Structural Finite Element Model of thin sheet undergoing Gas Tungstun Arc Welding for calculation of dimensional distortion during and post welding was developed. The model was further developed for analysing methods of distortion mitigation. The proposed method was quantified with its limitation.

Software used: Python, ANSYS Parametric Design Language

Soft Computing Approach Towards Optimization of Process Parameters of Green Sand Casting 2016

Guide: Prafulla Kumar Manoharan, Birla Institute of Technology, Mesra, India

Description: In order to optimize the sand casting parameters for minimum defects using soft computing approach. Artificial Neural Network, with Casting Parameters as input and casting defects as output was developed, trained and validate with the experimental results. The model after validation was deployed to predict the most optimized parameters for minimum casting defects.

Software used: Matlab.

Process Optimization using Statistics Quality Control 2015

Guide: Prasun Hui (Sr. Mgr. Slag Processing Plant, Industrial By-Product Management Division(IBMD), Jamshedpur(JSR))

Description: Utilized Statistical Process Control measures to increase the stable production rate of 95 Tonne Per Hour from existing 85 Tonne per Hr.

Software used : MS-EXCEL

TECHNICAL SKILLS

FEM(Finite Element Analysis)

Software & Tools

General Purpose programming language

Anslys, ALtair Hyper Works

MS Office, Latex, Matlab

Python, R, C, C++

ONLINE COURSES AND CERTIFICATION

Machine Learning by Stanford University on Coursera.

May 26, 2019

Data Analyst in Python.

May, 2019

TRAINING AND PARTICIPATION

CATIA V5R19 & AutoCAD

2013

Tool Room and Training Centre, India

Learned and practiced Modelling on Catia a CAD software used in industries for Product Development.

Workshop on Automobile Mechanics and IC Engine Design

2013

Horizon, A MBS Group Initiative

Got introduced to the basics of Automobile Mechanics and IC Engine with a practical demonstration.

Workshop on Autonomous Robotics

2012

Horizon, A MBS Group Initiative

The Workshop was conducted by Virscent Technologies Pvt. Ltd. in association with Education Project council of India. Was exposed to the field of robotics and how the design of robots answers the challenges.

National Workshop on Recent Trends in Manufacturing

2013

Horizon, A MBS Group Initiative

The workshop involved interaction with leading scientists about the trends in the manufacturing industry.

POSITION OF RESPONSIBILITY

Material Science Society Social Activities Coordinator

2017

Teaching Assistant at Mechanical Behaviour or Material's Lab.

2016-2018

Organized an institute level fest hosted by literary society.

2014