CURRICULUM VITAE

Amarjit P. Kene
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Objective

I am looking for an opportunity to continue the learning process through research work, to acquire knowledge in the respective field and also want to develop teaching skills under the guidance of excellent faculty in IIT Kanpur.

Academic Qualifications

Qualification	Year of Passing	Percentage/ C.G.P.A	Institute	University / Board
S.S.C.	2004	77.20%	Manibai Gujrathi High School, Amravati.	Maharashtra State Board
H.S.C.	2006	68.33%	Ramkrishna Junior college, Amravati.	
B.E. (Mechanical Engg.)	2010	65.31%	Prof. Ram Meghe Institute Technology & Research, Badnera, Amravati.	S.G.B.A.U. Amravati.
M.Tech (Manufacturing Tech.)	2012	8.5 (CGPA)	Jaypee University Of Engineering and Technology, Guna, Madhya Pradesh	JUET, Guna

Technical Skills

➢ AutoCAD, CATIA V-5, C, C++, HTML.

Industrial Visit

➢ Industrial visit at Gajra Gears Pvt. Ltd., Dewas, M.P.

- ➤ Industrial visit at Cummins Pvt. Ltd. Indore, M.P.
- ➤ Industrial visit at Bharat Heavy Electricals Limited, Bhopal, M.P.

Other Achievements & Extra Curricular

- ➤ Participated in National level Technical Festival 'Versatalia'08 in Roborace.
- ➤ Participated in National level Paper presentation Technical Festival.
- ➤ Participated in the National workshop on Manufacturing Automation-CIMS at JUET, Guna.

Languages Known

English, Hindi, Marathi.

Projects

"Sensor Operated Automatic Punching Conveyor"

B.E. Final Year project   Team size: 7

- Inspired by the Mechatronics subject, we decided to develop a smart system or a model of a Mechatronics system which should be fully automatic.

- We manufacture a working model of a punching conveyor which consists of gearing arrangement, pneumatic cylinder, solenoid valve, sensors, wiper motor, air compressor, mild steel frame, conveyor belt, relay circuit and battery.

- The sensor senses the object moving on the conveyor belt and gives signal to the pneumatic cylinder via solenoid valve and conveyor motor to stop the conveyor and to perform the punching operation.

- This ultimately reduces the human efforts to control the whole punching process and the time required to perform the entire operation and increases the quality of work as no human error involved and efficiency of process in case of mass production.

"Built Orientation Optimization for Implant Making by SLS process"

M.Tech. Project:

- Additive manufacturing means layer by layer fabrication of a product. Any complex shape can be easily manufactured with the help of additive manufacturing process. Now a days AM is widely used for the production of medical implants as accuracy, strength and customization plays a vital role for the human body. So the M.Tech project is broadly concentrating on this technique. The reason to opt AM is its versatility and rapid nature.

- Many factors such as AM process, type of material used, laser power, built orientation angles and length of implant affects the desirable characteristics of output product such as surface finish, build time, strength and manufacturing cost. In this project built orientation is considered and an attempt is made to optimize these angles of orientation for the minimum surface roughness and minimum build time. The data is being calculated theoretically by using mathematical formulation which is being converted into C++ programming to get the results instantly without the actual experimentation on AM machine. The assumptions are made considering the Selective Laser Sintering process for manufacturing.

- The Multi-objective optimization is being carried out using Response Surface Methodology. The design of experiment is done using Box-behnken technique. The total 15 runs of experiments are selected. The Multi-objective optimization is carried out using MINITAB 16 statistical software. The results were better with composite desirability close to 1.

Area of interest

I am working on AM in post graduation on "Build orientation optimization for implant making by SLS process" and up till now theoretically the results have come better. I mainly considered the orientation angles as input parameters and concentrated on the building time and surface roughness as output.

Area of interest is Additive manufacturing process which is a laser based manufacturing process. Some more output like strength and cost also matters in the manufacturing of the implant. So such results have to consider in the analysis. I want to continue such a research in PhD to analyze the combine effect of building time, surface roughness, strength and cost on the implant manufacturing. Future work will also include the multi objective optimization of all these output for the optimum value of orientation angle. Also after actual manufacturing of the implant, the comparison of actual and theoretical results to be done to check the reliability of the research work. In Ph.D. research I want to concentrate mainly on the manufacturing process selection and its optimization. Area of interest will also include the post processing processes like thermal spray coating and its characterization, surface modification as surface finish is the most desirable parameter in manufacturing.

Personal Details

Date of Birth   : August 05, 1989
Father's Name   : Mr. Prakash Narsinghrao Kene
Marital status   : Unmarried.
Contact Details   : Sitarambaba Colony, Ekvira Nagar,
                       Near Greenpark colony, Amravati,
                       Maharashtra- 444607
Hobbies   : Music, Reading, Table-Tennis, Cricket.

I hereby declare that the above information is correct to the best of my knowledge and belief.

Date:
Place: Kanpur (UP)   **Signature**