

# ANUDEEP KALVA

## PERSONAL DETAILS

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DOB: 19<sup>th</sup> Dec, 1989  
Driving license: Yes

## AREAS OF EXPERTISE

Data analysis (Multivariate/Univariate)

R&D – Process & Product Development  
DOE (Design of Experiment) studies

Metallurgy (Steel)

Powder Metallurgy

Project management

Root cause analysis

Statistical Process Control

Quality assurance

Failure analysis

## TECHNICAL SKILLS

Prosensus, Minitab, PI Process book, JMP

SAP (Intermediate),

Ansys workbench,

MS Project

CPM (Corporate Project Management)

## CERTIFICATIONS

Front Line Supervisor

Maintenance Supervisor

Working towards P. Eng.

Certified five core tools (APQP, PPAP,  
MSA, SPC, FMEA) professional

## PERSONAL SUMMARY

- 6+ years of experience in the field of Metallurgy and Material Science.
- Experience in leading and execution of Cost saving Projects.
- Contribution in multimillion dollar cost reduction and process improvement projects through metallurgical and material science principles.
- Experience in Research and Development and Failure analysis Root cause Analysis.
- Extensive Advanced Data Analysis skills with a problem solving approach using multivariate and univariate data analytic tools.
- Diverse experience working in a Powder metal components manufacturing industry, leading several projects with people in various disciplines like mechanical, chemical, electrical, civil engineering.
- Ability to lead a group of highly skilled people.

## WORK EXPERIENCE

**Stackpole International (Powder Metal Division Mississauga)**

**ADVANCED ENGINEERING PRODUCT DEVELOPMENT MANAGER** Feb 2017 - Present

### Duties:

- Developing material alloy systems for fuel cell interconnect components for solid oxide fuel cell components through powder characterization improvements and process improvements to atomization process.
- Extensive Advanced Data Analysis skills with a problem solving approach using multivariate and univariate data analytic tools.
- Advising multivariate and statistical process control approach to quality problems.
- Championing cross functional team on APQP, PPAP and FMEA.
- Leading group of highly skilled team of technical personnel towards problem solving.
- Working as a bridge between customer and plant with respect to materialization of ideas and concepts in a realistic way into a production driven environment with focus on research and development and business profitability.
- Extensive experience with every usage of advanced data analytics software tools like Prosensus Multivariate, JMP statistical analysis, Minitab, PI process book, Mind map etc.,
- Constant drive on literature review on alloy systems and developing technical trials in determining problem solving approaches and pushing the team towards constant improvement and new ideas.
- Developing prototypes and channelling prototype products to production environment through necessary quality testing and performance data analysis while leading the execution of process development of multi-million dollar projects.
- Working on multiple projects playing pivotal role in achieving target milestones through optimum man and resource management skills.

**Essar Steel Algoma**

**METALLURGY AND MATERIALS ENGINEER**

May 2014 – Feb 2017

### Duties:

- Reporting to General Manager of Engineering.
- Rotation through all the departments in steel plant and working on various metallurgical issues in each department.
- Identified Significant cost saving Initiatives which contribute to more than \$1.5 million dollars in savings for the organization.
- Experience in leading the projects and execution of the projects.
- Worked on projects involving frequent use of software's like the Minitab, PI process book.
- Experience in working with the operations, maintenance and quality personnel in each department through various rotations.
- Experience with working with a team which encourages creative thinking and suggesting process and operations improvement projects to the organization as part of the plant modernization and expansion project

## ***Innomet Metal Powders***

METALLURGY ENGINEER (INTERN)

Sep 2009-Nov 2010

### ***Duties:***

- Reporting to the Manager of Operations
  - Analyzing Atomization Process
  - Examining Hot Isostatic Press operations
  - Preparing Specimens of various compositions according to the client requirement
  - Submitting weekly progress reports to metallurgical engineer
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## ACADEMIC EXPERIENCES

- ***Study on BCC Zirconium alloys in nuclear reactor (Nuclear Metallurgy):*** The growth of the alloy Zirconium-2.5Niobium inside the reactor due to irradiation has been a major problem as it limits the lifetime of a nuclear reactor. This problem mainly occurs due to the high thermal coefficient of the alloy and due to the anisotropic nature of Zr-2.5Nb. As a potential solution to this problem, literature review was done on the possibility of a b.c.c alloy Zirconium-9Molybdenum existing inside the nuclear reactor and its potential scope to negate the irradiation.
- ***Metallurgical Investigation on a failed end fork of slithering frame in Military Helicopter:*** In this project carried out at RCMA (Regional Centre for Military Air Worthiness) detailed study on the topic of failure analysis was done. The main Objective of the Project was to find out the cause for failure of the Slithering frame of military helicopter. The samples were metallurgically investigated by visual inspection, chemical analysis, micro structure analysis, fractography and mechanical testing to study the change in properties and morphologies occurred in the slithering frame which was in service condition.
- ***Alloys preparation by Atomization and Powder Metallurgy:*** In this project specimens of Iron-Bronze were produced with various compositions using the powder metallurgy techniques. The specimens are produced using the process of water atomization and compaction. The produced specimens are further tested for the hardness in order to judge the best possible composition and understand the nature of the materials.

## QUALIFICATIONS

Master of Engineering in Metallurgy and Material Science Engineering  
Carleton University, Ottawa

Sep 2012 – April 2014

Bachelor of Engineering in Metallurgy and Materials Engineering  
Jawaharlal Nehru Technological University (JNTU), India

Aug 2007- Sep 2011

## EXTRACURRICULAR ACTIVITIES

### ***Voluntary works:***

- Active member of “Nirmaan Organization” – A voluntary youth Non-profit organization committed to work for poverty free knowledge driven and economically empowered and also participated in many medical camps to the poor.
- Student Organizing Member of the International Winter School on Advances in Aeronautical Materials and Technologies (AAMT-10) and the International Conference on Frontiers of Metallurgy and Materials Technology

### ***Sports:***

- Built a cricket team from scratch in a small community during my stint in Saultstemarie that won the NOCL (Northern Ontario cricket League) championship in 2016 and 2017 under my leadership. One of the most satisfying experiences that has helped in my professional career as well.
- Captain of the Carleton University cricket team which won the championship in the OVCC winter league 2014
- Captain of New Edinburgh cricket club, Ottawa (2013-2014)
- Won the prestigious inaugural JNTU Cricket tournament representing MGIT in the year 2008-09
- Represented India-A Cricket team in 2005

## INTERESTS

Technological advancements in Metallurgy & Material science | Cricket | Gaming | | Music| Travel

References provided upon request

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