



Sandeep Mohan

sandeepmohan.com
sandeepmadathil@gmail.com | 614.906.5176

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

MS IN MANF. & MECH.

SYSTEMS INTEGRATION

May 2013 - Dec 2015 | Rochester, NY

Current. GPA: 3.89

DIPLOMA IN APPLIED STATISTICS

AMRITA UNIVERSITY

B.TECH IN ELECTRONICS ENGG.

July 2008 - May 2012 | CBE, India

College of Engineering

Cum. GPA: 3.20

IMPRESSIONS

LinkedIn: [sandeepmohan777](#)

Twitter: [@msandy57](#)

Facebook: [sandeepmohan777](#)

Github: [msandy57](#)

SKILLS

STATISTICAL SOFTWARE

JMP SAS • Minitab • R

QI Macros • Excel • SHINY

PROGRAMMING

Matlab • SQL • C++ • C

DIGITAL DESIGN

LabView • Eagle 7.0 • RSlogix

VHDL • Proteus

COURSEWORK

GRADUATE

Design of Experiments

Statistical Quality Control

Lean Six Sigma Fundamentals

Manufacturing & Mechanical Systems Fundamentals

Advanced Electronics Packaging

Project Management

Fiber Optics Telecommunications

Supply Chain and Operations

Management

UNDERGRADUATE

Probability and Statistics

Operations Research

Agent Based Modelling

Programmable Logic Control

Process Control

Optical Instrumentation

EXPERIENCE

GLOBALFOUNDRIES | MANUFACTURING EXCELLENCE (Co-Op)

Jan 2015 - Present | Malta, NY

- Worked as facilitator for deploying **Kaizen** (Continuous Improvement) events and **Root Cause Analysis** to help the **Advanced Module Engineering** modules reduce usage of test wafers in pre-production & tool qualifications.
- Worked in tandem with the **Process Change Review Board** to improve the quality of statistical analysis in the submissions.
- Coached fellow Green Belt candidates through **DMAIC** & **DMADV** methodologies. A qualified **Lean & Six Sigma** trainer at **FAB8**.
- Responsible for providing statistical solutions using **JMP**. Analysis include: DOE, SPC, ANOVA, Linear Regression, Process Capability & MSA.

SALICYLATES AND CHEMICALS PVT. LTD. | ENGINEERING INTERN

August 2012 - November 2012 | Hyderabad, India

- Implemented **Quality at the Source** methodology using Standard Work Procedures and Visual Management.
- Maintenance of production schedule using **Gantt Charts**. Changes and modifications were reflected with daily updates from the production team.

PROJECTS

ACADEMIC

- **DESIGN OF EXPERIMENTS** Identified critical factors and level settings for shrinkage in Injection Molding Process using a **2-level Fractional Factorial design**.
- **OPERATIONS MANAGEMENT** Conducted a case study at Diamond Packaging, Rochester NY. This study analyzed and identified opportunities for improvement in their **JIT** Manufacturing System.
- **LEAN SIX SIGMA** The project used a **DMAIC** Methodology was to achieve a high **Sigma Level** & **ROI** for SigmaBrew - a virtual coffee shop.
- **STATISTICAL QUALITY CONTROL** Analyzed the sources of variation & proposed improvements in a Bottle Filling process using **Stewharts Control Charts** & **Process Capability**

INDUSTRIAL

- **CORPORATE STATISTICS AND DATA ANALYSIS BEST PRACTICES**
 - **DFSS** project with standard reference of data analysis procedures.
 - Reduced inconsistencies in Process Change Review submissions by 30%. Achieved a cost avoidance of > \$300,000.
 - Categorized as a **BIG (Best In GLOBALFOUNDRIES)** project.

CERTIFICATION

- Lean Six Sigma **Green Belt** @ GLOBALFOUNDRIES - 2015
- **Advanced Certificate** in Lean Six Sigma @ RIT - 2015

PUBLICATIONS

April 2012

Automated Digital Spyghmomanometer @ International Conference on Control Engineering - 2012