

# 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 - Dec 2015 | 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