Sandeep Mohan

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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 **Visual Management**.
- Maintenance of production schedule using **Gantt Charts**. Changes and modifications were reflected with daily updates from the production team.
- Assurance of quality in the raw material from suppliers.

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 PRACTICE DOCUMENT**
  - **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 Sphyghmomanometer** @ International Conference on Control Engineering - 2012