

MUGDHA RAVINDRA KASAREKAR

Graduate student in the Department of Materials Design and Innovation
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EDUCATION

Aug 2017 – current **Master of Engineering Sciences (Materials Design and Innovation)**
GPA: 4.0 *University at Buffalo, State University of New York*
Research Project: Quantitative Structure Property Relationships of Polymeric Materials (ongoing)

- Introduction to Materials Design and Informatics
- Multivariate Statistics and Material Informatics
- Thermodynamics and Molecular Structure
- Quantitative Structure Property Relationships

2007 – 2011 **Master of Engineering in Chemical Engineering with Business Management (IChemE Accredited)**
First Class Hons. *University of Birmingham, United Kingdom*
Design Project: Design of Rotary Dryer for Kaolin Processing
Research Project: Investigating strategies for the purification of drug substances re-crystallised from ionic liquids

WORK EXPERIENCE

Apr 2015 – Dec 2016 **Process Engineer**
GlaxoSmithKline, Worthing, UK

- Technical support for Sterile Products
- SME (Subject Matter Expert) for airflow pattern studies
- SME for Wireless data transfer and storage system
- SME for Particle Monitoring Systems/ISO classification
- Expertise in Plant Modifications and Change Controls
- Expertise in Root Cause Analysis studies and process improvements
- Expertise in Plant Shutdown and Start-up co-ordination

Dec 2011 – Mar 2015 **Associate Process Engineer**
Merck Sharp & Dohme, Cramlington, UK

- Technical Support for Solid Dosage Formulations
- Lead Large Process Validations and Equipment Qualifications
- Supported regulatory audits (FDA and MHRA)
- Expertise in Statistical analysis (using Minitab) for process monitoring, continuous process improvement for a Quality by Design product

AWARDS & SCHOLARSHIPS

2015 Lean Six Sigma Green Belt Certified
2011 Department of Chemical Engineering Garner Prize, U. of Birmingham
2011 Col. of Engg. and Phy. Sciences Cert. of Achievement, U. of Birmingham
2010 BP Internship scholarship, U. of Birmingham
2007 – 2011 U. of Birmingham Excellence Scholarship
2007 Bronze II Award in British Physics Olympiad

SKILLS AutoCAD, Aspen, Minitab, MATLAB, R, Python

LANGUAGES English, Hindi and Marathi

AFFILIATION Associate Member of the Institution of Chemical Engineers