# Peter M. Fulton

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## SUMMARY

Graduate of the University of Connecticut serving as a Product Process Engineer for Sumitomo Bakelite North America, with a focus in epoxy and diallyl phthalate polymer composites. I am a hard-working, driven individual looking for a new challenge to continue to expand my abilities in the world of manufacturing and process management/improvement.

## SKILLS AND CERTIFICATIONS

- *Computer Skills:* Mathematica, SAP MII, Microsoft Office, COMSOL Multiphysics, Python, Minitab, MSSQL, MATLAB
- *Engineering Skills:* Mathematical modeling, 3D printing, applied mathematics, injection molding, mold tool design
- *Certifications:* ISO:9001/IATF:16949 Auditor Certified, FMEA, DOE, CPR, First Aid

## EMPLOYMENT EXPERIENCE

**Sumitomo Bakelite North America**, Manchester, CT
*Product Process Engineer*, June 2017 – Present

- Provide prompt and thorough technical service to customers experiencing issues with compression, transfer and injection molding of epoxy and diallyl phthalate resin thermosets.
- Further develop existing material formulations to meet changing customer needs.
- Monitor and analyze plant-wide product yield data to isolate major dump contributors pertaining to each process line and pin-point OFIs to drive continuous improvement.
- Support IATF:16949 2016 QMS through updating work procedures, conducting 8D investigations, and reviewing FMEAs
- Run statistical CpK analyses following six sigma principles using Minitab to validate process and product changes.
- Responsible for maintaining and improving plant-wide data acquisition system (custom SQL DB and Historian).
- Lead process improvement projects using lean manufacturing tactics aimed to target recurring issues on roll mill and long fiber thermoset compounding processes.
- Conduct ASTM and ISO mechanical testing of molded specimens using Instron test equipment.

## EDUCATION

**University of Connecticut**, Storrs, CT
*Bachelor of Science in Engineering*, Chemical Engineering, Graduated: May 2017 (Honors), Cum Laude
Minor: Material Science Engineering
GPA: 3.66/4.00 *Honors*: New England Scholar 2014, Dean's List Fall 2013, Spring 2014, Fall 2014, Fall 2016
*Coursework Focus*: Thermodynamics, Fluid Mechanics, Chemical Engineering Analysis, Process Kinetics, Heat and Mass Transfer, Materials Failure Analysis, Polymeric Materials, Unit Operations and Process Simulation, Biomaterials

## ENGINEERING PROJECT EXPERIENCE

**UConn School of Engineering**, Storrs, CT
*Undergraduate Research Assistant,* January 2016 - May 2017

- Characterized the activated sludge basin of the water reclaim facility at the University of Connecticut utilizing aquarium pharmaceutical tests
- Analyzed collected data using Python to investigate correlations between chemical species data

*Model Simulation Engineer*, Fall 2016 – May 2017

- Optimized the process of employing a 3D printer to generate custom designs consisting of chocolate through the study of the rheological and heat transfer properties
- Utilized COMSOL to model the behavior of chocolate within the piston-driven syringe of the printer

## PROFESSIONAL MEMBERSHIP AND ACTIVITES

**Omega Chi Epsilon,** Storrs, CT, April 2015 – May 2017

- Chemical Engineering Honor Society