

Contact

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Top Skills

Materials Science

Ion Exchange

Process Design

Certifications

Professional Engineer (PE)

John Abbott

Multi-disciplinary Engineering: Process, Chemical, Materials, Data Science/Machine Learning
Horseheads, New York, United States

Summary

Engineer with broad engineering skillset spanning multiple disciplines and the ability to use that breadth to drive to innovative, effective solutions. Key expertise/career highlights include:

- Chemical Strengthening of Glass(including design of large-scale ion exchange systems)
- Coating Processes(particularly optimization of spray processes, including design of pneumatic and hydraulic systems supporting these processes)
- Data Analytics, to drive improvement of a wide range of processes
- Inspection Systems, particularly parametric optimization to maximize accuracy
- AI and Machine Learning project leadership

B.S. ChemE, M.S. MatSci, Licensed P.E.

Experience

Corning Incorporated

16 years 11 months

Inspection Process Lead

January 2021 - Present (2 years 4 months)

Big Flats, New York, United States

Used analytics and machine learning skills to optimize inspection systems for pharmaceutical glass, driving improved yields and increased inspection accuracy. Leading team driving inspection systems performance improvement across the business.

Coating Process Lead/Senior Process Engineer

January 2014 - January 2021 (7 years 1 month)

Big Flats, New York, United States

Took coating processes from development into manufacturing. Used analytics skills to drive process improvement and new learnings. Generated process innovations and intellectual property related to coating application.

Senior Chemical Engineer

February 2011 - January 2014 (3 years)

Corning, NY

Took processes from development to fruition in manufacturing, serving as a critical team member in the design and scale-up of major manufacturing processes.

Acting as the primary chemical and process engineering resource for the design, install and start-up of a complex, multi-step manufacturing process.

Process Engineer

June 2006 - February 2011 (4 years 9 months)

Work on processes in a development environment, working to improve process performance and yields and evaluate manufacturing feasibility.

Took processes from development to scale-up and large-scale manufacturing as a critical member of the design and start-up teams.

Education

The Johns Hopkins University

Bachelor of Science (B.S.), Chemical Engineering · (2000 - 2005)

Alfred University

Master of Science (MS), Materials Science and Engineering · (2013 - 2019)