



PRIYA RAVINDRAN

Process Engineer

CONTACT INFORMATION



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EDUCATION

B.S. Chemical Engineering,
University of Delaware, 2018

General industry safety training, 30 hours

KEY SKILLS

- Aspen Plus and Aspen process simulation
- P&ID and process flow diagram development
- Process hazard reviews and layer of protection analysis (scribe and team member)
- Management of change and pre-startup safety review
- Designed experiments and statistical analysis software
- Distillation, crystallization, extraction
- SolidWorks (layouts, skid packages)
- SAP production planning
- Batch record authoring
- Process safety management program elements

ABOUT ME

Process engineer with seven years across specialty chemicals and pharmaceutical intermediates. Owns unit operations from bench data through commissioning, with hands-on work in distillation, crystallization, and continuous flow. Runs change management packages and process hazard reviews, and uses Aspen modeling to defend design choices to plant operations.

PROFESSIONAL EXPERIENCE

PROCESS ENGINEER II | HALDEN SPECIALTY CHEMICALS, WILMINGTON, DE 2021 - PRESENT

- Debottlenecked a 30,000-gallon reactor train by re-sequencing the charge and cool profile, lifting monthly output from 84 to 112 batches without new capital.
- Led the process hazard review for a new solvent recovery column and closed 23 action items ahead of the pre-startup review.
- Rebuilt the site's steam balance in Aspen Utilities after a boiler swap, catching a 40 psig header shortfall the utilities group had missed.
- Sit on the change review board and screen roughly 15 changes a month for scope, pre-startup readiness, and P&ID accuracy.

PROCESS ENGINEER I | KESTREL FINE CHEMICALS, NEWARK, DE 2018 - 2021

- Scaled a Grignard step from 50L pilot to 4,000L production, holding impurity profile within the filed spec on the first three commercial batches.
- Ran the designed experiment that cut cycle time on a crystallization step by around a third by shifting the anti-solvent addition rate and seed load.
- Wrote the batch record and operator training deck for two new products transferred from R&D.
- Investigated a recurring filter clogging issue and traced it to a temperature excursion in the upstream quench, closed with a control loop retune.