Devan E. Kestel  
devan.kestel@gmail.com  
617.233.2629  
 • Github: http://www.github.com/devankestel  
 • Twitter: http://www.twitter.com/devankestel  
 • Tumblr: http://devankestel.tumblr.com

The Iron Yard  
Rails Engineering  
August 2015

University of Notre Dame du Lac  
M.S. in Chemical and Biomolecular Engineering  
May 2010

Massachusetts Institute of Technology  
B.S. in Chemical Engineering, minor in Spanish  
June 2007

Dupont Performance Coatings
(Now Axalta Coatings Systems)  
Senior Chemical Engineer  
February 2011 - April 2015  
  
 • Product formulation, optimization, and technical support of solventborne and waterborne automotive coatings for General Motors accounts with revenue exceeding $30MM annually.  
 • Optimized, commercialized, and launched a two­-component, polyurethane clearcoat system which delivered $800M revenue growth in 2012.  
 • Developed new rheology test method with optimized shear profile, reducing error in measurement by 50%, for non­-Newtonian solventborne paint systems.  
 • Technical lead for innovative spray process and paint technology conversion program which minimized assembly line downtime by 50% over conventional conversion.  
 • Provided support to Arlington Assembly, GM's most profitable manufacturing site, via new color development, formulation adjustments, and troubleshooting line issues (2011-2013). Currently provide support to Bowling Green Assembly, home of the Corvette.  
 • In addition to research and development, interface with manufacturing, quality assurance, sales and marketing, product stewardship, and field account teams on a daily basis.  
 • Work in a high­pressured, multi­tasking environment with constantly changing priorities and frequently required to make "on the spot" decisions that directly impact manufacturing at both Axalta and GM sites.  
 • Align formulas, manufacturing procedures, and product design specifications for manufacturing scale­-up.  
 • Serve on site team of internal quality auditors. Audit 6 areas per year against ISO:9001 and TS­16949 standards. Interview exempt and non­exempt employees across all shifts.

University of Notre Dame du Lac  
Graduate Research Assistant  
October 2007 - March 2010  
  
 • Thermophysical property measurement and estimation of ionic liquid systems for use as environmentally benign working fluids for carbon dioxide capture.  
 • Worked in a hybrid experimental and computational team to rapidly screen and characterize candidate ionic liquids for process optima including: relative volatility and solubility, hydrophobicity, corrosivity, toxicity, reaction and absorption enthalpies, and others properties relevant to process scale­up.  
 • Gravimetric measurement of binary vapor­-liquid equilibrium curves of ionic liquids with components in flue gas (e.g. CO2, CH4, H2O) as well as N2O.  
 • Analyzed and calculated hysteresis, infinite dilution activity coefficients, Henry's Law constants, and deconvolution of physical CO2 solubility from chemical CO2 reaction in amine­-functionalized ionic liquid systems.  
 • Supervised design and construction of ionic liquid absorber/ stripper unit.  
 • Proficient with both high and low pressure systems.

Alltech, Inc.  
Chemical Engineering Intern  
June 2004 - August 2006  
  
 • Product development, process design, and pilot plant management for Optigen, a controlled­-release, non­protein nitrogen supplement for dairy cattle which is now commercialized.  
 • Facilitated formulation of controlled­-release coating.  
 • Authored process flow diagrams. Collaborated on design of specialized fluidized bed dryer. Designated process instrumentation for final scale­up.  
 • Supervised 3­-4 production workers per shift in pilot plant operations.  
 • Designed and formulated a novel filtration system capable of 100% toxin removal from contaminated liquids.  
 • Bottled beer (KY Ale, KY Light, KY Bourbon Barrel Ale) at company microbrewery.