

# Name

phone | email | linkedin

## Experience

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Company	City, State
Research and Development (R&D) Engineer	July 2017 – Current
<ul style="list-style-type: none"><li>• Orchestrated the development, testing and commercialization of new PVC coating formulations for a high-volume manufacturing environment which led to a 40% increase in tensile strength retention properties while reducing coating costs by 12%</li><li>• Directly responsible as the process engineer in charge of managing scale up trials in order to reduce product construction and coating weight to reduce manufacturing costs by up to 17%</li><li>• Guided and collaborated with cross-functional teams which included sales, marketing and R&amp;D groups in the development of new composite fabric products to capture new business (\$1M)</li><li>• Served as the project manager directly responsible for a \$20,000 capital project which determined project scope and cost for PLC upgrades and piping changes to existing storage tanks that increased plasticizer storage by 50%</li><li>• Spearheaded the start-up and qualification of the newly installed pilot line through methods such as root cause analysis (RCA) and scanning electron microscope (SEM) analysis</li><li>▪ Continually produced new product samples on the pilot line for proof of concept and analysis</li><li>▪ Regarded as the technical lead and subject matter expert (SME) for all chemicals and raw materials processed</li><li>▪ Launched new standard operating procedures (SOPs) in order to meet customer quality requirements in collaboration with the quality department</li></ul>	

Undergrad Lab	City, State
Undergraduate Research Assistant	May 2016 – August 2016
<ul style="list-style-type: none"><li>• Created a simulation model on Aspen Plus of the [redacted] system to accurately predict the concentration of [redacted] and [redacted] leaving the system</li><li>• Implemented a new knockout drum solution to help the system keep a constant exit temperature</li><li>• Developed practical knowledge in how to construct, operate, and test lab-scale proton-exchange membrane (PEM) fuel cells</li></ul>	

## Technical Skills

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- **Analytical Methods:** DCS, EDX, FTIR, GCMS, SEM
- **Programs:** Aspen Plus, Chemsep, Hysys, Mathcad, Microsoft Excel, Minitab, Simulink
- Data interpretation, analysis and database management
- Extensive knowledge of PVC plastisol formulations and coating technologies

## Education

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University of [State] Honors College	City, State
Bachelor of Science (BS) in Chemical Engineering	May 2017
Minor in Chemistry and Concentration in Interdisciplinary Engineering	GPA: 3.8 / 4.0