

BEN SPECTOR

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EDUCATION	University of Michigan	Ann Arbor, MI
	<i>BSE in Chemical Engineering; Dean's List; GPA: 4.00/4.00; William J. Branstrom Award</i>	May 2024
	<u>Relevant Courses:</u> Reaction Engineering and Design, Engineering Statistics and Problem Solving, Transport Phenomena, Separation Processes, Chemical and Engineering Thermodynamics I - II, Introduction to Materials and Manufacturing, Introduction to Food Science and Engineering	
	<u>Activities:</u> American Institute of Chemical Engineers; Food Industry Student Association; Omega Chi Epsilon	
	Staples High School	Westport, CT
	<i>High School Diploma (Valedictorian); GPA 4.53/5.00</i>	June 2020
EXPERIENCE	Henkel	Trumbull, CT
	<i>R&D Formulations Intern</i>	May 2023 - August 2023
	<ul style="list-style-type: none">Investigated raw materials within laundry detergent formulations to determine key factors impacting viscosity and color/odor/appearance (COA) stability in high-surfactant detergent systemsDesigned five major experiments measuring viscosity profiles and stability in high-active detergents using viscometry and COA analysis, to identify conditions that satisfy North American consumersAnalyzed viscosity and wash performance data through regression modeling to quantify factor impact, and created visuals using PowerPoint and Excel to summarize findings for leadership	
	Unilever	Trumbull, CT
	<i>R&D Product Development Technician</i>	May 2022 - August 2022
	<ul style="list-style-type: none">Researched consumer trends in personal care products and distributor clean standards, in order to ascertain key desires for deodorant and antiperspirant products in North American marketsBatched 225 antiperspirant sticks of five different formulations belonging to various popular brands, in order to compare two new altered formats' performance with the control formatsConducted stability assessments and rancidity tests on the antiperspirants, in order to evaluate if the variants' appearance, odor, color, and oxidative stability met with control specifications	
	Tau Beta Pi (TBP): Michigan Gamma Chapter	Ann Arbor, MI
	<i>Electee Team Lead</i>	January 2022 - Present
	<ul style="list-style-type: none">Led a committee in interviewing eight candidates about their demonstrated academic and community leadership to determine the two recipients of the Arlen R. Hellwarth AwardProctored and graded 30 K-12 teams in the Wi-Fi Lab activity for the University of Michigan Science Olympiad event, to guarantee the competition progressed properly and fairlyCreated several ideas for various new TBP initiatives to assist in honor society improvement	
	General Mills Chewy Candy Design Project	Ann Arbor, MI
	<i>Team Member/Representative</i>	October 2020 - December 2020
	<ul style="list-style-type: none">Conducted background research by performing over five store walkthroughs and taste testsAnalyzed General Mills market data for three major regions to develop an optimal chewy candyCollaborated on a two-dimensional representation of proposed candy, and developed a 14-step process flow and large-scale cost analysis, with an estimated profit of \$223,000 per batch	
	The Roy Gross Law Firm, LLC	Norwalk, CT
	<i>Patent Assistant</i>	July 2019 - August 2019
	<ul style="list-style-type: none">Monitored filings for 200+ global clients in the chemical/biomedical sectors by reviewing updates on the US Patent and Trademark Office site to confirm clients met all necessary requirementsEscalated any issues with missing documentation to ensure timely establishment of protections	
ADDITIONAL	<ul style="list-style-type: none"><u>Technical skills:</u> Microsoft Office, Google Suite, laboratory and batching techniques, experimental design, R&D, data analysis, electronic lab notebook (ELN), LIMS, ASPEN Plus, C++, MATLAB<u>Soft skills:</u> project management, technical communication and presentation, teamwork, agility, leadership, organization, intermediate Spanish (CT Seal of Biliteracy), conversational Portuguese<u>Certifications:</u> AIChE Intro to Process Safety; AIChE Equity, Diversity, and Inclusion<u>Other awards:</u> 2020 National Merit Scholar, 2020 Louis Armstrong Award<u>Lead saxophonist:</u> played alto/tenor for 10+ years, coordinated practice sessions, welcomed and trained new band members, performed at 20+ concerts and competitions<u>Community service:</u> played music for seniors for 4+ years, helped set up/clean up local events	