

JESSICA DILLON

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EDUCATION	UNIVERSITY OF MICHIGAN College of Engineering Bachelor of Science in Mechanical Engineering, April 2023 <ul style="list-style-type: none">• GPA: 3.92/4.00• James B. Angell Scholar, University Honors, Dean's List• International Minor for Engineers• Coursework: Physics Mechanics, Intro to Programming, Design and Manufacturing, Thermodynamics, Statics, Dynamics, Circuits, Behavior of Materials, Fluid Dynamics, Modeling, Analysis and Control of Dynamic Systems, Biomechanics	Ann Arbor, MI
EXPERIENCE 2022	FORD MOTOR COMPANY Design Analysis Engineer - Internship <ul style="list-style-type: none">• Analyzed crash tests with the Automotive Safety Office utilizing knowledge of crash mechanics and CAE analysis software training• Inspected vehicles for fire origin and root cause with the fire investigation team• Improved restraint design cycle charts to assist in quicker discovery response• Developed a tracking matrix for the Autonomous Vehicles Rulemaking and Regulations department to support Voluntary Safety Self-Assessment claims	Dearborn, MI
2021	STELLANTIS (FORMERLY FIAT CHRYSLER AUTOMOBILES) Manufacturing Engineer - Internship <ul style="list-style-type: none">• Inspected current manufacturing techniques and compiled data to help improve plant processes, establish countermeasures to contain defects, and increase vehicle quality• Conducted daily maintenance and operator station inspections to ensure compliance with standardized protocols, and prepare for upcoming plant audits• Developed Kaizens according to World Class Manufacturing standards to document cost savings after a new material started being used• Monitored paint specific processes across multiple shifts to ensure protocols are standardized and being performed correctly	Sterling Heights, MI
2022	UNIVERSITY OF MICHIGAN COLLEGE OF ENGINEERING Design and Manufacturing 2 - Course Final Project <ul style="list-style-type: none">• Designed, wired and assembled a four-bar linkage mechanism capable of sorting 18 colored disks and placing them on their corresponding target zone in 23 seconds• Modeled and analyzed a design utilizing SolidWorks and ADAMS• Calibrated the linkage mechanism using an electromagnet, limit switch, toggle switch and Arduino Uno with customized PID values	Ann Arbor, MI
2020	Design and Manufacturing 1 - Course Final Project <ul style="list-style-type: none">• Prototyped and manufactured an automated miniature golf course hole capable of changing the speed of the ball, contacting several dynamic elements, and making a hole in one	
2020-Present	Engineering Global Leadership Honors Program <ul style="list-style-type: none">• Selected to represent the Engineering Global Leadership organization at a four day Leadership Connection Conference• Organized and lead groups during week long volunteering trips in San Diego, California and Lima, Peru	
2020-Present	Phi Sigma Rho STEM Sorority Active Member <ul style="list-style-type: none">• Elected Vice President of External Affairs, Scholarship Chair and served on the Pomp and Circumstance Committee	
2019-2020	M-STEM Academies M-Engin Program <ul style="list-style-type: none">• Elected as a student council officer to represent a group of over 100 individuals to manage finances, and organize events• Attended networking events as well as diversity, equity, and inclusion training panels	
ADDITIONAL	<ul style="list-style-type: none">• Seal of Biliteracy (Spanish) - Winter 2019, Proficient in Spanish• Software Proficiency: Microsoft Office, Windows, Mac OS, SolidWorks, Google Workspace• Professional Skills: Technical communication, public speaking, time management, organization• Technical Skills: Basic machining, lab trial and error experiments, engineering design process	