Ryan Brown

broryan@umich.edu

https://www.linkedin.com/in/RyanBrownUmich/ Personal Site: ryanbrown.ga

EDUCATION	 University of Michigan - College of Engineering Sophomore Graduating April 2022 Computer Science Major: EECS 281 - (Data Structures and Algorithms), EE Data Structures), EECS 203 (Discrete Math), MATH 214 (App Linear Alg). Course projects include 3D DFS and BFS maze algorithm, content aware in Euchre with polymorphic AI players, priority queue stock market simulate. Entrepreneurship Minor: PSYCH 223 (Entrepreneurship Creativity) 	mage rescale program,
PROFESSIONAL EXPERIENCE	 University of Michigan - Walter E. Lay Auto Lab nternship Developed structural CAD designs of 3-D engine piece prototype to be attached to engine block to ensure fitting for pressure and temperature sensors. Installed piping, fixtures, wiring, and electrical components in generator engine control cart. Constructed assemblies for engine test cell such as water and exhaust pipelines. Reworked, repaired, and replaced parts and assemblies in an ongoing refurbishment project of a diesel particulate matter diluter. Integrated data acquisition systems and sensors to collect live-test data for benchmarking. 	
 PROJECTS Abstract Geometry Generator https://github.com/rb404/Abstract-Geometric-Design Utilized HTML 5 Canvas framework Kovna to generate series of specified shapes varying color, opacity, and coordinates to be used in backgrounds, presentation Implemented a spacing algorithm in JavaScript to determine deviating positions on the canvas. Generated a line direction algorithm that controls the coordinate formation of generates. Personal Website Development ryanbrown.ga Self taught front-end development basics to showcase various projects and educe personal site. Personal site contains coursework, project showcases, professional experience be gallery, etc Ongoing project. Website is updated whenever a new project, course, or professional 		ntations, etc. ositions of shapes ion of generated nd education on a rience blog,
	 experience is completed. MetaTrader 4 Expert Advisor Trading Scripts Designed FOREX trading scripts to execute simple long and short position observed indicator. Scripts analyzed historical data to open and close positions from MA croppsAR, etc 	
ADDITIONAL SKILLS	C++, JavaScript, HTML, CSS, Matlab, MetaTrader 4, Autodesk Inventor, Solidworks, Milling, Lathe, Adobe Creative Suite, Blender.	
HOBBIES I have enjoyed the visual arts such as graphic design, videography, and 3D Animation since middle school. I have designed logos, composed VFX, and rendered animations.		