Max A. Ernst

Education University of Michigan

Facial Tracker

Python Active Camera Facial Tracker and Identifier

♀ Ann Arbor, MI

July 2020 - September 2020

	B.S.E Computer Science and Engineering, Ross Minor in Business GPA: 3.40 Expected Graduation: May 2024 Coursework: Self Driving Cars and Drones: Introduction to Autonor Linear Algebra, Introduction to Computers and Programming, Minds Data Structures, Discrete Math	
	Purdue University Seminar for Top Engineering Prospects Summer Engineering Program	♥ West Lafayette, IN July 2019
Skills	Experienced: C++, Python Proficient: Matlab, Microsoft Excel, R, HTML, CSS Novice: Java, Unity Development Engine, Javascript	
Experience	 GB AIR (Granite Bay High School Aerial Drone Team) Project Team Manager Built and programmed five remote control planes of differing de quadcopter GB AIR team manager focusing on education of new members a Met team goals of achieving maximum flight time of 120 seconds 	nd project management
	 MRover (University of Michigan Mars Rover Project Team) Member of Autonomous Division of Software Team Created a filter to identify and remove outlier data received from visual camera sensor, eliminating 90% of obstacle detection false positives Contributed to improve accuracy of virtual testing environment regarding the testing of new perception programs 	
	 UM: Autonomy (University of Michigan Autonomous Boat and Droit Member of Software Division of Drone Team Transitioned 	ne Project Team) ♥ Ann Arbor, MI September 2021 - Ongoing
	 Boys Team Charity Member of Charity Organization Volunteered 3-5 hours a week to tutor at Kids First, an afterschofamilial situations. Personally designed programs to inspire inte Philanthropy activities also focused on supporting homeless organd Loaves and Fishes, as well as working with Special Olympics 	rest in STEM fields. ganizations such as Cycles 4 Hope
Projects	Personal Website HTML and CSS Website Website created to self-teach HTML and CSS, as well as to create an appealing way	max-ernst/github.io September 2021 - Ongoing e a means to display past projects in
	 Image Adjustment C++ Image Adjustment Algorithm Using Computer Vision and Seam Object aware computer vision determines seams of pixels deem objects in image, and then sequentially removes these seams Capable of changing the dimensions of an image without cropp 	ed least necessary to retain important