2021 Virtual Project Day Scavenger Hunt

•	ect: TAG: Automated image Captioning *** what is the purpose of automated image captioning used i search study? *
	Increase accessibility of viewing images
	To eliminate the need to hire people for captioning images
	Determine the accuracy of automated image captioning
	Both A and C
2. Proj	ect: Gas Level Detector ~~ What was the purpose of this project? *
	To create an easy way for firefighters to measure the levels of certain gasses
	To send automatic updates to ensure firefighters know what type of environment they are in
	Provide GPS coordinates to other dispatched units
	Both A & B
3. Proj	ect: SMPS EMC Counter-Measure Study $^\sim$ What is the purpose of switching mode power supplies? *
	To decrease the amount of electricity used
	To reduce the amount of noise produced
	To change the type of noise produced
	To identify the best snuffer
-	ect: Depth Camera Implementation for the Tunnel World $^{\sim}$ How is the depth camera used for tion in the tunnel world? *
	Sensors enable the controller to intercept its surroundings to navigate its environment
	Trial and error
	The camera is connected to a person who is navigating and controlling the size and speed of the animat
	Camera uses infrared sensors to detect proximity to obstacles
5. Proj	ect: The Big Green Tractor ~~ What occurs if you hit button 9 in the controls on the tractor? *
	The tractors back door opens
	The tractor moves forward
	The tractor moves in reverse
	The tractor starts singing "She Thinks My Tractor's Sexy" by Kenny Chesney
_	ect: GVSU Historical Interactive Map ~~ What color are the residential buildings on the historical ctive map of GVSU? *
	Red
	Blue
	Green
	White

7. Project: I control syst	LCD & Robotic Arm Control System $^{\sim}$ Which of the following is NOT a feature of the robotic arm tem? *
-	ate 90 degrees
	oper: open and close
-	and down
-	ward and back
8. Project: A	ASPC Branch and Leaf ~~ What of the following is NOT included in the branch and leaf system? *
□ A to	ouchscreen that shows the current state of the machine
□ A bu	utton to switch the state of the machine
□ A gr	een light to signify completion
☐ A bu	uzzer to indicate user error
found to be	Shape Changing: Using Morphology to Alter Tunnel Maze Navigation ~~ What parameter(s) was the most successful for using morphology to alter tunnel maze navigation? * easing morph penalty is the most important parameter alization is the most important parameter
	easing morph penalty and localization are both equally important parameters
	ly a genetic algorithm
☐ Face ☐ Ama	s SnapQ ~~ Which crowdsourcing tool did the SnapQ team use? * ebook groups azon MTurk ogle Opinion Rewards tter Responses
11. Project:	The Bageler ~~ Why did the team choose to rotate the bagel inside the toaster? *
☐ To s	speed up the time it took to toast
□ To r	make the process more enjoyable
□ To €	ensure even toasting
□ To k	pe able to use less energy for heating
☐ The☐ It ru☐ It pr	Bluetooth Toaster ~~ How does this Bluetooth toaster differ from a base toaster model? * user can customize their desired toast level using a visual aid uns off battery power roduces a consistent toast h A and C
13. Project:	: Smart Toaster ~~ What makes the smart toaster more efficient than a typical toaster? *
☐ Ard	uino circuit board
□ Blue	etooth and phone application
	sistent toasting
	of the above

	ject: Low Pass Multi-stage Filter ~~ What does the filter provide filtering for? * Common mode Differential noise Both A and B Ultraviolet radiation
15. Pro	ject: Using Machine Learning for Detection of COVID-19 What is the purpose of a convolutional neural
	rk (CNN) used in this research project? *
	To determine validation accuracy of the model
	To extract important features out of the image
	To model the human brain
	To inform the public about an outbreak
quality	ject: Water Quality Monitoring Buoy ~~ This solar-powered buoy is used to monitor the following water measures EXCEPT: * pH Turbidity Calcium Temperature
17. Pro	oject: Ambient Lighting System ~~ Some possible revisions for this project include all of the following
	Larger battery
	Smaller case for the controls
	Better algorithm for designing the colors
	Better amplifier