

Yi-Le Chen (Allen)

(+1)4153415851 · yilechen17@tamu.edu · www.linkedin.com/in/yile-allen-chen-0409

OBJECTIVE	Seeking an internship or co-op in the field of Computer Science/Engineering for Spring/Summer 2021		
EDUCATION	Texas A&M University (TAMU) , College Station, Texas Bachelor of Science in Computer Engineering GPA: 4.0		May 2022
RELATED COURSEWORK	Data Structures & Algorithms Programming Studio	Introduction To Computer Systems Introduction to Digital Systems Design	
TECHNICAL SKILLS	Familiar with Python, C++, HTML, Arduino programming Familiar with Keras API, TensorFlow, Sci-kit Learn and OpenCV libraries, Linux, GIT Experience with Microprocessor programming, SQL, JavaScript, ROS, MATLAB, Simulink, Cube MX, STM32ARM		
WORK EXPERIENCE	Software Quality Assurance Engineer , Mays Innovation Research Center (MIRC) <i>Student Worker</i>		Fall 2019
	<ul style="list-style-type: none">Responsible for conducting standardized testing on software programs developed by MIRCDevised solutions to try breaking tested software and report existing bugs while documenting test processEffectively provided feedback to software developers and help improve the software		
PROJECT EXPERIENCE	Machine Learning Researcher , Texas A&M University <i>Student Researcher at DATA lab</i>		May 2020 – Present
	<ul style="list-style-type: none">Conducted a research project on Time Series Outlier Detection System (TODS)Responsible for developing, testing and maintaining several primitives for anomaly detection pipelineIndependently completing a thesis on applying anomaly detection in COVID-19 trend forecasting		
	Drone Developer <i>Personal Project</i>		August 2020 – Present
	<ul style="list-style-type: none">Developed intelligent drone based on DJI F450 frameworkApplied control theory to tune PID controller, utilized Kalman Filter for state approximation in PX4Tested ROS and Gazebo simulation along with motion planning using SLAMDeploying object detection/tracking algorithms to onboard camera and computing platform (In progress)		
	Texas Robomaster Robotics Club , Texas A&M University <i>Member of Embedded System team and Computer Vision team</i>		January 2019 – Present
	<ul style="list-style-type: none">Responsible for developing software to track moving robots using OpenCV, YOLO and other librariesImplemented and tested software to control the robot's chassis movementCooperated with team members to compete in the 2019 Robomaster competition held by DJI		
	Undergraduate Research Program , Hong Kong University of Science and Technology <i>Student Researcher</i>		Summer 2019
	<ul style="list-style-type: none">Conducted a group research project on time series prediction using machine learning methodsResponsible for building different Neural Network models in Linux environment with PythonImplemented the machine learning models for improved prediction accuracy using Keras and Sci-kit Learn		
ACTIVITIES	TamuHack 2020 , Texas A&M University <i>Member</i>		January 2020
	<ul style="list-style-type: none">Built a crowd sourcing web application that allowed people to post events(Emergencies, free food) nearbyResponsible for building the back end using MySQL, Flask framework and Google Cloud Platform		
	TAMU Datathon 2019 , Texas A&M University <i>Member</i>		September 2019
	<ul style="list-style-type: none">Competed in a data science challenge to analyze and predict on given datasets using machine learningDesigned and implemented machine learning algorithms and achieved top five in prediction precision		
WORK AUTHORIZATION	Eligible to work in the U.S. for 12 months with Practical Training		