

Chandra Teja Tiriveedhi

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EDUCATION	Embry-Riddle Aeronautical University Bachelor of Science, Computer Engineering	Daytona Beach, FL December 2021
SKILLS	<i>Programming Languages:</i> C, Python (Basic), Java, HTML, Assembly Language Programming <i>Programs:</i> Arduino (Basic), Digital Logic Design, Verilog, Eclipse, Keil, MATLAB, Wireshark <i>Software:</i> Microsoft Word, PowerPoint, Access, Windows Movie Maker, iMovie <i>OS & Architecture:</i> MacOS, Windows, ARM, RTOS <i>Languages:</i> English, Hindi, Telugu, French	
WORK EXPERIENCE	Floa,Co. Software Engineer Intern	Daytona Beach, FL February 2021-Present
	<ul style="list-style-type: none">• Programming appropriate sensors for the detection of Kayaking Boards inside a storage unit. Sensors utilized to detect objects.• Utilizing Particle IoT platform to program sensors for object detection• Performing unit tests on the sensors utilizing a circuit board• Working on designing an embedded system using Node.JS, Vue.JS, Particle IoT	
	<i>Embry-Riddle Aeronautical University</i> Research Ambassador , Office of Undergraduate Research	Daytona Beach, FL April 2020-Present
	<ul style="list-style-type: none">• Advising students interested in pursuing undergraduate research in computer science and engineering projects• Peer mentor to current undergraduate researchers	
	Grader , Physical Sciences Department	August 2019-March 2020
	<ul style="list-style-type: none">• Graded assignments of 70 students enrolled in Physics for Engineers I	
PROJECT EXPERIENCE	RoboSub Project: Member of 4-person team Utilizing Deep Learning for object recognition through cameras. Assisting in the programming of NVIDIA platform Jetson TX1. Utilizing ROS to run on NVIDIA Jetson.	
	Sea Turtle Technology: Research Assistant Utilizing Keras RetinaNet algorithm and TensorFlow library to identify individual sea turtles and their characteristics such as species and gender. Sea turtles will be detected using unmanned aircraft Applied Aeronautics Albatross. Assisting in integrating a payload onto the aircraft that consists of Cameras, Jetsons, and Servos.	
	When2meet website design: Member of 5-person team Designed alternate version of When2meet website. Compared to the original when2meet version, this website had resume and skills parser to create groups with compatible skills for projects. Designed front end using HTML and Javascript, front end page displayed meeting times selected in color to communicate with the backend algorithm of determining the best meeting times. Utilized Python and Pandas library to read a CSV file generated from the meeting algorithm to convert to webpage. Meeting algorithm determines the best meeting times. Utilized Scrum process and Agile methodology.	
	FPGA Washing Machine: Individual assignment Utilized Verilog to create a washing machine/dryer model on NexysA7 Artix-7 FPGA board. State machines and clock cycles were utilized to make the washing machine have different washing options suitable for different types of clothes and temperatures.	
	Arduino Boe-Bot Project: Member of 3-person team Programmed Boe-Bot using Arduino to achieve line following behavior using IR sensors and RGB color sensors. Worked in a team to design and document test cases and test plans to achieve the requirement of line following behavior. Utilized waterfall model to complete this project	
	Senior Design Project-EcoCAR UI: Member of 5-person team Create an UI prototype for an EcoCAR. UI provided visual aid to the driver by displaying the cars position, speed, lanes, distance of the obstacles around the car and surroundings. Utilized Python Tkinter library to design the GUI.	
	Study Abroad, Aegean Airlines, Greece: Member of 30-person group Studied operations of airlines and airports, including tours and discussions with personnel in the various departments: maintenance, marketing, and revenue management. Lectures and discussions included transportation principles, safety, and flight simulations. Worked as a team to solve a scenario-based problem of an on-board flight generator failure. Lived on a small sailboat with 10 other students, while being immersed in the local culture.	

Ignite Cultural Research Abroad, Iceland: Individual assignment

Conducted a week-long study titled, "How does an electrical vehicle help an average person in Iceland?". ERAU Scholarly Commons, manuscript published, August 2018

LEADERSHIP

Volunteer, Orientation Team Ambassador (ERAU), 2019-present

President and Founder, Movie/Film Making Club (ERAU), 2018-present

Member, Robotics Association at Embry-Riddle (RAER), 2017-present

AWARDS

ERAU Honor Roll, Spring 2018 and Fall 2020

ERAU Deans List, Spring 2020