

Cheng-Chiang (Rocky) Chen

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58 Bouldercrest LN SE APT-E Atlanta, GA 30316

Education:	Bachelor of Science. Computer Engineering Virginia Tech - Blacksburg, Virginia	December 2019
Skills:	Languages: Java, JavaScript, HTML, CSS, C/C++, Verilog, Python, BASH Frameworks: Angular, React, Spring, Spring Boot, Hibernate Databases: MySQL, MongoDB, AWS Protocols: MQTT, TCP/IP, RabbitMQ, SPI, UART, I2C Tools: Git, Jenkins, Postman, Node.js, ModelSim, Visual Studio, Ubuntu	
Work Experience:	Delta Air Lines, Inc. Contractor- Pyramid, Atlanta, Georgia <i>associate software developer</i> <ul style="list-style-type: none">● built complex user interfaces and interactive components using angular frameworks● Assisted fixing the error on CI/CD jenkins pipeline to AEM production● Played a key role in rewriting and testing new flow offers, resulting in generating over \$100,000 in revenue within a week of launch.● developed and maintained responsive, cross-browser compatible, and accessible websites using HTML, CSS, and JavaScript● Utilized agile methodologies to develop a new application form webpage, resulting in 8.5 million people enrolling in the Sky Miles project within a year● Actively participated in agile development processes, including sprint planning, daily stand-ups, and retrospectives	July 2021 - May 2023
	Terrestrial Robotics Engineering & Controls (TREC), Blacksburg, Virginia <i>Undergraduate Research with Dr. Alexander Leonessa</i> <ul style="list-style-type: none">● Designed a circuit board in Autodesk EAGLE to reduce noise on torque detection for knee movements in humanoid bipedal robot. Robot was intended to be entered into US Navy competition to assist in firefighting sea rescues.● Programmed a serial peripheral interface and synchronous serial interface to work with C2000 Delfino Launchpad Board to control robot using the C/C++ language	April 2019 - December 2019
Academic Projects	Robotic Arm - Embedded System Design <ul style="list-style-type: none">● Developed a robotic arm capable of detecting objects using IR sensors and picking up cubes using C/C++, FreeRTOS, and a TI LaunchPad CC3220SF Board.● Implemented multi-threaded software operating under real-time constraints on embedded computer systems.● Implemented software modules for sensor data acquisition and communication protocols.. IoT Twitter Wishing Well - Network Applications Design <ul style="list-style-type: none">● Collaborated in a team of three to plan and develop an online wishing well using Python and the Twitter API.● Employed RabbitMQ to handle multiple Twitter clients simultaneously and store wishes using MongoDB.	

