**Rong Zheng**

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U.S. Citizen

**EDUCATION:**

**Florida Atlantic University Boca Raton, FL**

Bachelor of Science in Computer Engineering and Computer Science May 2020

GPA: 3.77

**WORK EXPERIENCE:**

**Ford Motor:** Manufacturing Software DeveloperCo-op January 2020- Present

* Technical debugging, troubleshooting, and log analysis to determine causes for software failures during manufacturing runs by using C++ on Linux, batch script on Window, and bash shell script on device builds
* Running sanity and stress tests to ensure the code changes on Jenkins' build work sufficiently with SYNC Infotainment System

**Hispanic Serving Institute:** Mentor January 2019- Present

* Conducting one-on-one tutoring sessions for college students in Algebra, Pre-Calculus, Calculus I, Calculus II, Java, and Intro to C
* Following up with students and professors through regular class visits

**Randstad Technologies US:** Embedded Software Engineer Intern May 2019- Jan 2020

* Tested and debugged applications for AIS (Autonomous Infrastructure Software) and CPM (Caterpillar Production Measurement) in C++ on Linux for Caterpillar’s off-highway machinery
* Developed new features based on user stories and load onto an ECM (Engine Control Module) for integration testing by using SSH

**FAU College of Nursing:** IT AssistantJanuary 2019- April 2019

* Maintained, troubleshooted, installed, and updated computing and network devices for faculty, including laptops, office computers, and printers.

**TECHNICAL PROJECT:**

**Automated Rescue Transportation Yunit (ARTY):** January 2019- December 2019

* Designed a dual control system for an on the water rescue unit by using RC and WiFi network connection with Arduino Nano and Raspberry Pi
* Implemented a user interface by using Node.Js for serial port communication on the WiFi network for motor control

**miniRHex:**  September 2019- December 2019

* Created a low cost, miniature scale hexapod robot by using Arduino Nano microcontroller
* Designed a software to control robotic legs remotely via WiFi network communication

**Robotic Hand:**  May 2019- August 2019

* Implemented a Robotic hand with wireless glove control by using Raspberry Pi and MSP430
* Troubleshooted flex sensors and UART communication on MSP430 with C

**TECHNICAL SKILLS:**

* **Development Tools:** C, C++, Node.Js, Python, Java, SQL, Linux/Unix, GIT, Jenkin, Jira