Guoze(Terry) Tang

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EDUCATION

Clemson University - *Master of Computer Science*	*Clemson, SC*	**May. 2018 - Present**
University of Science and Technology of China - *Master of Software Engineering*	*China*	**Mar. 2017**
Yunnan University - *Bachelor of Engineering in Electrical and Electronics*	*China*	**July. 2014**

PROGRAMMING SKILLS

- **Programming Language**: C, C++, Python, Shell Scripting, Flex, Bison, Binpac, Java, Assembly, MySQL, JSON, Matlab
- **Working Environment/Tools**: Linux, Embedded Linux, Embedded Systems, ucos, VxWork, ARM, Office, GCC, Makefile,Git, gdb, Design Patterns, VS Code

EXPERIENCE

The School of Computing at Clemson University   **May. 2018 - Present**
Research Assistant   *Clemson, CA*

- **Research Assistant - Network Security**: Research on Virtualization of Network Intrusion Detection Systems for network protocol parser. Developed the Network Protocol parses for DNS, HTTP protocols by Binpac language and Click system.

DJI Technology   **May. 2016 - Nov. 2016**
Embedded Software Development Intern   *Shenzhen, China*

- **Sensor Driven Development**: Developed Sensor-driven of FJ project in DJI and analyzed the data of Sensor. Realized Serial port, IIC, SPI development, ucos operating system. In addition, Developed and validated barometer drivers for MAVIC.
- **Data Analysis**: Use Statistical method to analyze the Sensor data to make a decision to choose which sensor in our produce by Matlab.

BJ YUNXI Technology   **Jun. 2015 - May. 2016**
Embedded Software Development Intern   *Guangzhou, China*

- **Embedded System**: Developed ARM part of the master control module and developed VoIP based on Asterisk.Realized online upgrade in the master module and the SLP Protocol Analysis module.
- **Software Development**: Applied technology and tools: Keil developertools,Mysql database, VxWork driver development, built VoIP server based on Asterisk, built SVN server.

PROJECTS

Network Protocol Parser *C++, Binpac, Click system*   **May. 2018 - Sept. 2018**

- Design the DNS, HTTP, FTP, SSH Protocol Parsers by C++ and Binpac language.

Paper Track System *Python, Tkinter, MVC pattern*   **Mar. 2018 - June. 2018**

- Designed the GUI of Paper tracking system by Tkinter.
- Realized the paper manager code and code Todo Task tracker code.
- Applied technology: Tkinter, Python3.5, MVC Design Pattern.

2015 RoboMaster Robot competition *C, RAM, I2C, SPI*   **Sept. 2014 - June. 2015**

- Finished STM32F4 communication with a remote pan and adjustment of PID parameters.
- Worked out main Control Board receives remote control data error after adding the door dog.

Design and Analysis of the Encrypted File system Based on Linux *C++, QT, Shell Scripting*   **2014 - 2015**

- Designed team work plan and the overall framework of the project.
- Realized eCryptfs cryptographic file system implementation mechanism, designed UI Interface based on QT, dealt with Root permissions file access vulnerability.
- Applied technology: QT Development, Linux file system, GCC, Makefile and gdb.
- Finished perfectly and got second prize of USTC.

HONORS AND AWARDS

- **The Excellent graduate in Anhui province 2017**
- **National master scholarship (TOP 2%) 2015**
- **Robomasters robot competition:First prize (East China), Second prize(China) 2015**