Ruoyu(Rory) Zhuang

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Education	**Master of Engineering in Electrical Engineering**	08/2016-12/2018
	University of Houston, Houston, TX	**GPA: 3.79/4.00**
	Bachelor of Science in Electrical Engineering	07/2012-11/2015
	Minor in Computer Science	GPA: 3.35/4.00
	Rose-Hulman Institute of Technology, Terre Haute, IN	

Skills

Java, C++, C, SQL, Swift, Python, AWS, Medical device regulation
JavaScript, PCB design, Embedded system, Project management

Experience

Software Developer/Project Coordinator, Endothelix, Inc. — 02/2017-1/2018
- Medical instrument development, Android development, research
- Collected data on Chinese subjects to compare with data from the U.S.
- Worked with oversea partners to facilitate design and production

Data Analyst/IT, Measurement and Evaluation Center UH — 12/2016-12/2018
- Website (ASP.NET), SQL Server maintenance and development
- Testing and evaluation data analysis. On-Call IT support

Oscilloscope Design, Texas Instruments *Senior Design Project* — 09/2014-05/2015
- Integrated PCB, analog front end, embedded system and software design

Projects

Claystone MERN Stack Application
Used MERN stack to implement and deploy a real estate company web app with maintenance request submit, and email functions Manager can login to manage requests

VENDYS Vascular Function Testing Simulator
Used JavaFX to implement a graphic medical device simulator to help fine-tuning the algorithm

Dynamic Streamline Visualization
Implement dynamic flow and streamline visualization with C++

Robot Arm Object Relocation
Used OWI robot arm and a camera to track and relocate objects

Temperature Sensor and Stepper Motor
Used a PIC16F887 microcontroller and I2C bus with sensors and display

Flea Market App on iOS Platform
Used Swift and Firebase to create an information exchange app

FPGA Game Development
Used Verilog to develop a bit calculation game with Altera DE2-115 board