

Ruoyu(Rory) Zhuang

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Education	Master of Engineering in Electrical Engineering <i>University of Houston, Houston, TX</i>	Expected 12/2018 GPA: 3.79/4.00
	Bachelor of Science in Electrical Engineering Minor in Computer Science <i>Rose-Hulman Institute of Technology, Terre Haute, IN</i>	07/2012-11/2015 GPA: 3.35/4.00
Skills	Java, C++, C, SQL, R, Swift, Python, AWS, Medical device regulation PCB design, Embedded system, Project management	
Experience	<u>Software Developer/Project Coordinator, Endothelix, Inc.</u>	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	
	<u>Data Analyst/IT, Measurement and Evaluation Center UH</u>	12/2016-12/2018
	◦ Website (ASP.NET), SQL Server maintenance and development ◦ Testing and evaluation data analysis. On-Call IT support	
	<u>Oscilloscope Design, Texas Instruments Senior Design Project</u>	09/2014-05/2015
Projects	◦ Integrated PCB, analog front end, embedded system and software design	
	<u>VENDYS Vascular Function Testing Simulator</u>	
	Used JavaFX to implement a graphic medical device simulator to help fine-tuning the algorithm	
	<u>Dynamic Streamline Visualization</u>	
	Implement dynamic flow and streamline visualization with C++	
	<u>Robot Arm Object Relocation</u>	
	Used OWI robot arm and a camera to track and relocate objects	
	<u>Temperature Sensor and Stepper Motor</u>	
	Used a PIC16F887 microcontroller and I2C bus with sensors and display	
	<u>Flea Market App on iOS Platform</u>	
Research	Used Swift and Firebase to create an information exchange app	
	<u>FPGA Game Development</u>	
	Used Verilog to develop a bit calculation game with Altera DE2-115 board	
Research	<i>Microvascular Dysfunction in US Outpatient Clinics as a Potential Indicator of Residual Risk: Data from 7,105 Patient Registry</i> Ahmed Gul, Ruoyu Zhuang, Albert A. Yen, Hirofumi Tanaka, Stanley Kleis, Morteza Naghavi (In-press)	