Ruijia Yang

5434 Lerner Hall, 2920 Broadway, New York NY 10027
203-727-9108 | ry2277@columbia.edu
https://github.com/ruijiayang

EDUCATION

Columbia University, New York, NY
Bachelor of Science in Computer Engineering | GPA 3.29 | *Expected May 2018*
Relevant Current Coursework: Digital Systems Laboratory, Fundamentals of Computer Systems, Computer Networks, Machine Learning
Past Coursework: Advanced Programming (C, UNIX, C++), Data Structures in Java, Intro to Computing in Python, Discrete Math, AP Computer Science in Java, Probability, Intro to Electrical Engineering

WORK EXPERIENCE

Electrical Engineering Intern | *May 2015 – August 2015*
Kulite Semiconductor Products, Leonia, NJ

- Debugged sensor hardware using IC datasheets, circuit schematics, circuit analysis, and simulation tools
- Applied circuit analysis techniques, to calculate output for 140+ Kulite amplifiers, including op-amp circuits, AM and FM transmitters, 4-20mA transmitters, and pressure switches
- Determined frequency response, transient/ESD/EMI protection, minimum load impedance, recommended operating ranges, and other parameters for those 140+ amplifiers using circuit analysis and IC datasheet analysis
- Improved efficiency, accuracy, and consistency of Kulite amplifier analysis by developing an analysis methodology that applies pattern identification, standardized formulas, and a layered problem solving approach

Recruitment Intern | *July 2014 – August 2014*
Virpie Tech, Southbury, CT

- Sourced candidates for Virpie Tech clients' IT, HR/administrative, and financial analyst positions

PROJECTS

Columbia International Aerial Robotics Competition (IARC) Team | *February 2015 – Present*
Columbia University Robotics Club, Columbia University

- Using ROS/Gazebo to simulate IARC ground robots; working with Python in UNIX environment

TECHNICAL SKILLS/AREAS OF PROFICIENCY

- **Computer Science:**
  - **Languages:** Java (2 years), Python (1.5 years), C/C++ (1 year), Matlab (1 year)
  - **Web Development:** HTML/CSS (in progress), JavaScript (in progress)
  - **Environment/Tools:** Linux (1 year), Git (1 year), ROS Suite (in progress), TCP/IP Programming (in progress)
- **Electrical Engineering:**
  - **Circuits:** Piezoresistive sensors, op-amp circuits, Arduino, Raspberry Pi
  - **Tools:** LT SPICE, EE Lab Equipment

HONORS

- Third prize hardware/software hack at Columbia DevFest 2016 (http://devpost.com/software/penelope)