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| Ruijia Yang | 5434 Lerner Hall, 2920 Broadway, New York NY 10027 |
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**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>)