

Julia Di

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EDUCATION

Columbia University, New York, NY, USA

Bachelor of Science in Electrical Engineering, Computer Science minor Aug 2014 – May 2018
Cumulative GPA: 3.66 / 4.0 (Dean's List)

Richard Montgomery High School, Rockville, Maryland, USA

International Baccalaureate Diploma Magnet Program Aug 2010 – Jun 2014
Cumulative GPA: 3.92 / 4.0

PROJECTS

Knickerbocker Motorsports, New York, New York, USA

Vice President, Body Sub-Team Sep 2014 – present
Manage operations and logistics over 50-member engineering team, designs racecar body in SolidWorks and Rhino, then manufactures body by machining molds and performing carbon fiber lay-ups.

Collapsible 3D Printer, New York, New York, USA

Team Leader Feb 2015 – present
Applied for and received grant from the Engineering Student Council to create a collapsible mini 3D printer.

Richard Montgomery Robotics Team, Rockville, Maryland, USA

Mechanical Design & Logistics Oct 2011 – Jun 2014
Built three robots over the course of three years according to the FIRST Tech Challenge, and placed 2nd in world in 2014. Robots are programmed in Robot C and designed in CAD software and built using CNC machine, 3-D printers, and aluminum channel.

RESEARCH EXPERIENCE

Columbia Laboratory for Unconventional Electronics, Columbia University

Undergraduate Research Assistant, Electrical Engineering Department Jan 2015 – present
Project: Building an ion sputterer and microfabricating thin-film bulk acoustic resonators
Supervisors: Professor Ioannis (John) Kyriassis and Hassan Edrees
Research areas: thin film electronics, acoustic resonators, microfabrication.

PUBLICATIONS

1) J. Di, "The Satellite Assessment of Impact of the 2012 Great Drought on Corn Growth in the US Corn Belt," in *Proceedings of the International AgroGeoinformatics Conference*, Fairfax, VA, Aug 2013.

HONORS & AWARDS

Res. Inc., Program, Columbia University Sep 2014 – present
An application-only student entrepreneurship residential incubator (30 students across school).

Emerging Scholars Program, Columbia University Sep 2014
A seminar program for selected students in introductory computer science.

Raytheon Robotics Scholarship, Raytheon Company Aug 2014
\$1,000 scholarship for outstanding participants in FIRST robotics (40 scholars nationwide).

Orbital Sciences Full Scholarship, Orbital Sciences May 2014
\$6,000 scholarship for outstanding engineering students. Awarded to only 5 other students.

National AP Scholar, College Board May 2013
Awarded for scoring 4 or 5 on AP BC Calculus, AP Biology, AP Chemistry, AP Physics Mechanics, AP Physics E&M, AP Statistics, AP Environmental Science, AP Computer Science, and AP Spanish Language.

Gold Key, Scholastic Arts and Writing Competition Jan 2013, Jan 2014
The nation's most prestigious pre-collegiate art and writing competition, with 200,000 pieces submitted.

HACKATHONS

MakeCU Feb 2015
Created a game using Arduino microcontrollers.

Columbia University DevFest Feb 2015
First hackathon, programs hosted on GitHub (hover for link).

LANGUAGES

Spanish: Intermediate (speaking, reading, writing).
Mandarin: Intermediate (speaking); basic (reading, writing).

COMPUTER SKILLS

L^AT_EX, MATLAB, Python, Java, HTML, CSS, Autodesk Inventor, SolidWorks, Rhino, PTC Creo, Adobe Photoshop, Adobe InDesign, Sony Vegas Pro.

INTERESTS

Visual arts, photography, creative writing, solving challenges, reverse-engineering.