Julia Di

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OBJECTIVE	I am a graduating senior looking for a hardware summer internship (going to graduate program).
EDUCATION	**Columbia University**, New York, NY, USA
	B.S. in Electrical Engineering | Minor in Computer Science · · · · · · · · · · · Aug 2014 – May 2018
	Cumulative GPA: 3.87 / 4.00 (Dean's List all semesters)
	Courses: Classical Controls, Digital Signal Processing, Communication Systems, Advanced Programming (C/C++), Data Structures (Java), Circuit Analysis, Solid State Devices, Digital VLSI
SELECTED WORK EXPERIENCE	**Lockheed Martin Space Systems**, Sunnyvale, CA, USA
	Electro-Optical Engineering Intern · Jun 2017 – Aug 2017
	• Developed computer vision algorithms on FPGAs for aerial onboard processing capabilities
	NASA Marshall Space Flight Center, Huntsville, AL, USA
	Robotics Academy Research Associate · Jun 2016 – Aug 2016
	• Designed, built, and tested a 3 DOF robotic arm with electrostatic gripper to capture orbital debris
	• Developed electronics and control algorithms, and tested with air bearings on MSFC's flat floor
	Carleton Laboratory, New York, NY, USA
	Undergraduate Laboratory Assistant · May 2015 – Aug 2015
	• Machined hundreds of samples of novel composite structure for infrastructure use by client request
	• Analyzed and wrote 300+ pages of final report for client with graduate student project leader
SELECTED RESEARCH EXPERIENCE	**Creative Machines Lab**, Columbia University
	Undergraduate Research Assistant, Mechanical Engineering Department · · · · Sep 2016 – present
	• Supervisors: Professor Hod Lipson, Joni Mici
	• Built a 3D-printed quadruped with image recognition capabilities as a machine learning platform
	Sia Lab, Columbia University
	Undergraduate Assistant, Biomedical Engineering Department · · · · · · · · · · Sep 2015 - Dec 2015
	• Supervisors: Professor Samuel Sia, Ninna Rossen
	• Designed a device through rapid prototyping to automate manufacture of a novel cell therapy
	Columbia Laboratory for Unconventional Electronics, Columbia University
	Undergraduate Research Assistant, Electrical Engineering Department · · · · · Jan 2015 – May 2015
	• Supervisors: Professor Ioannis (John) Kymissis and Hassan Edrees
	• Designed and constructed an ion sputterer to microfabricate thin-film bulk acoustic resonators
SELECTED LEADERSHIP EXPERIENCE	**Columbia Space Initiative**, Columbia University
	Co-Founder and Co-President · Sep 2015 – Mar 2017
	• Organizes keynote speaker events, workshops, and technical space projects for 60+ members
	• Winner of Zvi Galil Award for Improvement in Engineering Student Life in Spring 2017
	Women in Computer Science, New York, NY, USA
	President · Apr 2015 – present
	• Initiate and manage events with tech companies and startups to promote women in tech
	Columbia MakerSpace, Columbia University
	Superuser · Apr 2016 – present
	• Responsible for weekly office hours to teach students about prototyping and 3D printing skills
	Formula SAE (Knickerbocker Motorsports), New York, NY, USA
	Electronics and Carbon Fiber Engineer · Sep 2015 – Sep 2016
	• Design electronics, integrate sensors, manufacture foam molds, and perform carbon fiber lay-ups
HONORS & AWARDS	**Women in Aerospace Scholarship**, Women in Aerospace Foundation · · · · · · · · · Aug 2017
	Aviation Week's Top 20 Twenties Award, Aviation Week Magazine · · · · · · · · · · Dec 2016
	Raytheon Robotics Scholarship, Raytheon Company · · · · · · · Aug 2014, Jul 2016, Aug 2017
LANGUAGES	Python • C/++ • Verilog • VHDL • MatLab • LATEX • HTML • Java • LabView
SKILLS	3D Printing • Amateur Radio • Cadence • FPGAs • Git • Microcontrollers • PCBs • Soldering