**Anna Petruczynik**

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**Education**

Stevens Institute of Technology, Hoboken NJ  
Bachelor of Engineering in Electrical Engineering, Expected May 2019, GPA 3.9  
Master of Engineering in Computer Engineering, Expected May 2019  
Dual Degree Scholars Program, Cooperative Education Program, Minor in Mathematics

**Skills**

PCB Design, Altium Designer, Cadence Allegro Viewer, Eagle CAD, LTSpice, Microcontrollers, C++, Python, Analog Circuit Design, Atmel AVR, ST Microcontrollers, NFC Technologies, Java, Arduino, Raspberry Pi, Soldering, GitHub,

**Work Experience**

LATCH, New York City, NY (01/2017 – Present)  
Electrical Engineering Co-op, Hardware Design  
- Designed multilayer PCBs for products as well as internal use   
- Designed and supported development of boards with RF application – BLE, Wifi, Zigbee, NFC  
- Developed documentation and requirements for manufacturing purpose including ICT, RF and functional testing  
- Carried projects through design, engineering and production validation stages  
- Created and tested prototype boards to evaluate new technologies and components  
- Debugged boards with focus on reducing manufacturing defects and optimizing power consumption.

PCB Design, schematic capture, Design for low power, small form factor, multi-board devices. Design for NFC radio and antenna, architecture for SPI, UART, I2C, RS-485, USB, Documentation preparation for contract manufacturers in Asia, design and gerber reviews. Specifying requirements for ICT and functional testing

Matchstick LLC, Boonton, NJ (  
Engineering Co-op, R&D  
- Designed PCBs based on ATMEL Atmega microcontroller  
- Created a comprehensive solution to support and optimize user research by adding an automated camera control system. Contribution – camera recorder controller (mechanical chase, PCB design, firmware), video processing (scripts and gui for parsing files and overlaying markers for adobe Premiere)  
- Managed a fast paced project and assisted with growth and development of a startup

Stevens Institute of Technology, Hoboken, NJ  
Teaching Assistant, Engineering Design 1-4  
- Prepared class material, checked on student progress and carried out design labs  
*- Supported students with projects including Arduino-Based robots, electronic circuits and mechanical designs*  
- Helped students with debugging code in C++, LabVIEW and Matlab/Simulink

Petsoft Monitoring GPS, Gdansk, Poland  
Device Assembly and QA  
- Wired and Soldered PCBs for GPS Car tracking devices  
- Tested devices for flaws and assembled final products

**Academic Projects**  
IEEE Students Branch Micromouse competition – building a robot to navigate to the center of a maze  
Multiple Hackathons (some projects) – Interactive LED Table, (??? Feature security system?), Twitter connected Kitchen appliances, Smart Plant - Auto-Watering System

Leadership and Volunteering / Community involvement (Cut down on it)  
Vice Presidents of Stevens IEEE Student Branch, Member ot Eta Kappa Nu, Mentor for High School students from Poland seeking opportunities abroad, Volonteer at Stevens Math Olympiad Grades 6-12, Tutor at Stevens in Math and Engineering subjects, Freshman Orientation Leader, Maker Day – Learn to Solder Volunteer,

Interests

Rock Climbing, Snowboarding, Kung-Fu, Juggling, Languages