Armaan S. Kohli

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Education:

- ***Bachelor of Electrical Engineering****, Cooper Union Albert Nerken School of Engineering, New York, NY*
  Projected Class of 2020
  - *Major GPA: 3.7*
  - Half-Tuition Merit Scholarship 2016 – 2020
  - Innovator Merit Scholarship 2016 – 2020

Project Work:

- ***Coffee Can Radar System Design Project*** ***Fall 2017***
  - Reverse engineered and assembled a complete radar system and all subsystems
  - Designed, tested and debugged RF circuit with spectrum and network analyzers
  - Used Python to preform computations and process acquired signals
- ***Prosthesis Design for Diabetes Patients in Rural Uganda*** ***Fall 2016***
  - Modeled designs using SolidWorks
  - Conducted cost analysis including material, production and shipping costs
  - Contacted experts in the field both in American and Ugandan research hospitals
- ***Lead Naval Architect, Boat Design Team*** ***2016***
  - Designed presentations and logos using Adobe Photoshop and graphic design skill
  - Lead a group of peers to design a motor boat for the Society of Naval and Marine Engineers Boat Design Competition
  - Modeled designs using the Prosurf software package and the Autodesk Suite
  - Used leadership as well as technical skills to guide team to a top twenty finish in the competition
- ***Web Designer and Developer, Walk Bethesda*** ***2015***
  - Used statistical methods to interpret police data to locate dangerous crossings for pedestrians
  - Published findings with HTML5/CSS3, Javascript, jQuery, Google Maps API, Tableau Software
  - Advocated for pedestrian safety using website

Work Experience:

- ***R & D Intern, Cooper Union Energy Research and Design Center, RCS Inc.*** ***Winter 2018-Present***
  - Developing an IoT system to track temperatures of liquids in pressurized vessels for commercial use, focusing on minimizing power consumption to optimize battery life
  - Researching different Bluetooth Low Energy SoCs, communication protocols and different internal and external databuses
  - Designing PCBs with Eagle to fully implement the system, so that the it be mass produced and integrated in the next line of products
  - Writing C code for an embedded system to record analog measurements and transmit data via BLE
- ***Research Intern, Rainking*** ***2016***
  - Conducted research about major organizations concerning mergers, bankruptcy and buyouts
  - Managed and maintained content uploaded into the database
  - Processed and uploaded crowd-sourced market research into Rainking's database
- ***Web Designer and Developer*** ***2015***
  - Published websites for small businesses and restaurants in the local area
  - Developed using HTML5/CSS3, Javascript, jQuery
  - Designed logos and other media elements

Skills:

- C, C++, R, Matlab, Eagle, LTspice, HTML5/CSS3, Verilog, Javascript, SolidWorks, Linux

Extracurriculars:

- Research Paper Club, IEEE/ACM