

MOHAR KALRA

973.997.4062 • mohar.kalra@columbia.edu • U.S. Citizen • www.linkedin.com/in/mohar-k • mkalra.me

SUMMARY

Design-oriented engineering student and artist fascinated by technology's ability to transform the way people interact with their world. Recognized for curiosity and initiative in interactive media research and other technical projects. Seeking to leverage proven technical, aesthetic and management skills to develop ergonomic products that vitalize each user's reality.

EDUCATION

Columbia University in the City of New York

New York, NY

- Bachelor of Science in Electrical Engineering

May 2021

Georgia Institute of Technology

Atlanta, GA

- Bachelor of Science in Electrical Engineering, GPA: 4.00

August 2017 – May 2021

Millburn High School

Millburn, NJ

- Valedictorian, National Merit Scholar; GPA: 4.47

June 2017

WORK EXPERIENCE

JABIL, INC

St. Petersburg, FL

Electrical Design Engineering Intern

May 2018 – August 2018

- Design, analyze, test and troubleshoot PCBs to meet client requirements for consumer electronics
- Design, inventory and construct electrical harnesses for high fidelity prototype of home appliance for client
- Design and execute experiment to test Alexa-enabled assembly's ability to recognize voice commands in various situations

ADAPTIVE DIGITAL MEDIA LAB

Atlanta, GA

Paid Student Researcher under Dr. Brian Magerko

January 2018 – May 2018

- Developed wifi-enabled tangible interfaces for Tunetable platform to teach children programming principles through music
- Used Arduino and Python servers to send and receive data over OSC protocol from tangibles to Tunetable computer
- Designed passive sensing localization method between tangibles interfaces using ATTiny84's and I2C communication

THE TECHNIQUE

Atlanta, GA

Staff Writer and Cartoonist for the Georgia Institute of Technology's Student Newspaper

August 2017 – May 2018

- Created and illustrated the Technique's first ongoing weekly comic strip "Technobabble", and write weekly film reviews

RESEARCH

VIP ROBOSENSE

Atlanta, GA

Student Researcher / Vertically Integrated Project Program

August 2017 – December 2017

- Redesigned and tested internal structures of Autonomous Underwater Robot to improve reliability and user-friendliness

LEADERSHIP

ARTHACKS

Atlanta, Georgia

Budget Manager / Georgia Tech's First 24-hour Art Hackathon

January 2018 – March 2018

- Managed \$2,300 budget to supply meals and complimentary art supplies for attendees
- Procured 240 free and discounted meals from 7 Atlanta Restaurants to provide complimentary meals for the 40 attendees

ERATO

Atlanta, Georgia

Assistant Editor / Georgia Tech's Literary Arts Magazine

August 2018 – May 2018

- Curated pieces in the magazine and helped design magazine pages in Adobe InDesign
- Publicized the magazine through the organization of a magazine launch party and distribution events

SKILLS

Engineering: Robotics, CAD, interactive media, IoT, SolidWorks, Java, Matlab, Javascript, Arduino, VBA, CSS and HTML, digital system design, analog circuit design, 3D Printing, Python (novice), product design, wireless communication, open frameworks (novice), OSC, PCB debugging, Raspberry Pi, Amazon Voice Services, PCB design, schematic capture, prototyping, electronics testing and verification, Altium Designer, oscilloscope, VLANs

Communication: Technical document writing, data presentation, mentoring, public speaking, Word, Excel, PowerPoint, event management

Arts: Sequential art, graphic design, illustration, film production, screenwriting, directing, Adobe Creative Suite

Languages: English (Native), Spanish (Intermediate)