

MOHAR KALRA

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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

Georgia Institute of Technology

Atlanta, GA

- Bachelor of Science in Electrical Engineering, GPA: 4.00
- Minor in Engineering and Business; Denning Technology and Management Program, Class of 2020

May 2021

Millburn High School

Millburn, NJ

- Valedictorian, National Merit Scholar; GPA: 4.47

June 2017

WORK EXPERIENCE

ADAPTIVE DIGITAL MEDIA LAB

Atlanta, GA

Paid Student Researcher under Dr. Brian Magerko

January 2018 - Present

- Develop wifi-enabled tangible interfaces for TuneTable platform to teach children programming principles through music
- Use Arduino and Python servers to send and receive data over OSC protocol from tangibles to TuneTable computer

THE TECHNIQUE

Atlanta, GA

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

August 2017 - Present

- 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

PROJECTS

BILING-URL

Hackensack, NJ

- A Hack built in 24 hours at the hackathon HackBCA III
- Built a Google Chrome Extension in JavaScript that helps users learn new languages through their daily internet usage
- Awarded "Best Humanities" and "Best Education" Hack out of the 500 attendees

April 2016

"WORLD-CHANGING"

Millburn, NJ

- 11-page self-published Comic about my thoughts on perspective and fulfillment
- One of 251 Scholastic Gold Key Regional Award winners out of 4,200 East-Coast entrants

September 2016 – January 2017

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

HACKMHS IV

Millburn, NJ

Head of Budget / Millburn High School's MLH-Sponsored 24-hour Hackathon

December 2016 – May 2017

- Acquired \$2,500 dollars in sponsorship and donations from companies and community members
- Procured 450 free and discounted meals from 6 Millburn Restaurants to provide complimentary meals for the 110 attendees

SKILLS

Engineering: Robotics, CAD, interactive media, statics, IoT, SolidWorks, Java, Matlab, Javascript (novice), Arduino, VBA, CSS and HTML, digital system design, analog circuit design, 3D Printing, assembly programming (novice), Python (novice)

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

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

Languages: English (Native), Spanish (Intermediate)