

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 research and design of autonomous robots 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

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

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

FEASIBILITY OF SPACE ELEVATORS

New Brunswick, NJ

Rutgers Student researcher / New Jersey Governor's School of Engineering and Technology

June 2016 – July 2016

- Researched the production and deployment of space elevators to determine the technological feasibility of space elevators
- Designed and Stress-tested 3D models of carbon nanofiber weaves to determine the strongest elevator cable weave

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

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

FTC ROBOTICS TEAM 8405

Millburn, NJ

Build Team Captain / Millburn's First Technology Challenge (FTC) Team

September 2015 – Feb 2017

- Managed the design, construction and maintenance of the FTC competition robot and managed the team's \$15,000 budget

SKILLS

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

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)