Samuel L. Shmidman
376 West 245th Street
Riverdale, New York 10471
samuelshmidman@gmail.com
Mobile: 917-756-6955

Education:

- **SAR High School** in New York. Currently in 12th Grade.
- **Brandeis University**. Accepted and planning to begin September 2023.

Extracurricular Activities:

- **SAR High School Robotics Team** → Only freshman accepted to the team; Currently in fourth consecutive year on team; Serving second consecutive year as Team Captain.

- **Python Club** → Co-Founder of the Python club aimed to introduce students to the basics of Python programming → 10th and 11th Grade.

- **Hack Club** → Co-Founder of Hack Club, aimed to give students a general introduction into programming; created within the Hack Club Organization, an international group → 12th Grade.

- **Riverdale Jewish Center** → Youth Leader in 9th Grade working with children under 6.

- **KCI/SAR Food Pantry** → Volunteer at the Food Pantry in Riverdale, New York; responsibilities include unpacking deliveries, stocking shelves, packing food packages, and delivering finished packages to families in need. Active volunteer currently.

Summer Activities:

- **ID Tech** → Nationwide programming summer camp attended at Columbia University for 6 summers (2014, 2015, 2016, 2017, 2018, 2020)

- **Moshava Indian Orchard** → Camp in Honesdale Pennsylvania; 8th/9th Grade

- **Achva East** → Travel program across Eastern part of the United States; 8th Grade

- **BlueStamp Engineering** → Program focused on engineering a SmartMirror with voice assistant programmed and created with the help of instructors; 10th Grade.

- **Cooper Union Summer STEM** → Program focused on water research that used bioremediation with household items in Central Park and Prospect Park; 10th Grade.

Personal Projects:

- In process of filing a patent for a universal controller receiver board to attach to the Raspberry Pi Computer
- In process of filing a patent for a universal CNC machine controller with custom firmware to allow any type of CNC machine from mills to 3D printer to be controlled with 1 board
- Currently working on implementing a custom built database to record sports stats at my high school using Python and MySQL
- Designed and Created PCB for a keyboard macro-controller
- Created 3D printer utilizing the Ender 3 Frame, touchscreen LCD, swappable extruders, and auto homing
- Built a Gaming Computer

Skills:

- 3D Printing
- Fusion360
- FreeCAD
- KiCAD
- Java
- Python
- JavaScript
- HTML
- C++