MAX SEIDEL Boston, MA | (470) 419-1200 | seidel.m@northeastern.edu | **tinyurl.com/maxseidel**

EDUCATION

Northeastern University, Boston, MA

Candidate for Bachelor of Science in Mechanical Engineering | **GPA: 3.643** **Expected May 2024**

- Activities and Honors: James W. Healy Full Scholarship, National Hispanic Recognition Program Scholarship, LSAMP Scholar, and Community Manager-University Fellow of Tikkun Olam Makers (TOM) Northeastern.

Riverwood International Charter High School, Atlanta, GA

High School Diploma - IB Program | **GPA: 3.693** **May 2019**

- Activities and Honors: Honor Roll all Semesters, President of Robotics Team, Founded and led Riverwood Makerspace, President of Science National Honor Society, President of Spanish National Honor Society, 14 AP & IB courses, and Varsity Tennis.

EXPERIENCE

Atlanta Face Shields - *Founder* | **tinyurl.com/AtlantaFS** **Mar 2020 - Present**

- Spearheaded nonprofit to provide PPE to essential workers during COVID-19 pandemic by raising $30,000 used to produce over 5,000 3D printed face shields.
- Leveraged partnerships with The Coca-Cola Company, TOM, VMWare, Taulman3D, Atlanta Beats Covid, Atlanta Police Department, and all major hospitals in the Atlanta area; to source raw materials, funding, volunteers, and distribution.
- Utilized Trello, GoFundme, Instagram, and created a website to manage logistics, delegation of work, large scale manufacturing, and volunteer organization.
- Ongoing face shield efforts at Northeastern, University of Alabama, Georgia Tech, University of Maryland, and CSUSM.

Expeditionary Robotics Laboratory, Northeastern University - *Undergraduate Researcher* **Sep 2019 - Feb. 2020**

- Designed & implemented multiple dynamic self-folding fingers for the "Origami Robot Gripper" project.
- Developed active origami wrist brace for assisted typing through gesture recognition for carpal tunnel prevention.

CRAB Lab, Georgia Institute of Technology - *Research Assistant* **May 2018 - May 2019**

- Led the design, construction, and data collection for the "Smarticle" and "Soft Robotic Earthworm" projects at the Complex Rheology and Biomechanics Lab.
- Submitted paper titled *Lateral Undulation Aids Biological and Robotic Earthworm Anchoring and Locomotion* to *Bioinspiration and Biomimetics* Journal*,* Feb 2021.

Max's 3D Hub, Atlanta, GA - *Founder* **May 2015 - Apr 2019**

- Started personal 3D printing business with a built-from-scratch 3D printer.
- Acquired additional 3D printers in order to expand manufacturing capabilities and increase revenue.
- Managed 80+ clients worldwide, printed 150+ client orders, and maintained top Atlanta area rating with 4.9/5.

PROJECTS

Georgia Governor's Honors Program **Jun 2019 - Jul 2019**

- Developed a Computer Vision system to detect failed 3D prints in Python and SciPy using edge detection filters.

Exoskeleton with Artificial Pneumatic Muscles **Jan 2018 - Dec 2018**

- Georgia Science and Engineering Fair | Major Awards: Georgia Tech Prosthetics and Orthotics Award, Biophysics Award, and Best in Category.

Myoelectric Prosthesis without Targeted Muscle Reinnervation Surgery **Jan 2017 - Dec 2017**

- Intel International Science and Engineering Fair Finalist | Major Awards: Intel Excellence in Computer Science, Georgia Tech Prosthetics and Orthotics Award, Biophysics Award, and Best in Category.

SKILLS

SOFTWARE | SolidWorks, Simplify3D, Cura, Slic3r, MATLAB, Tracker, Arduino, C++, Python, Java, Inkscape.

LANGUAGES | English and Spanish (native)

GENERAL | Use and repair of 3D printers (FDM and SLA), Soldering, Hand tools, Power tools, PC building, Wood lathe, Pneumatics, Electrical circuits.