

RILEY DRCELIK

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SUMMARY

Aspiring computer engineer with skills in software, hardware, and beyond. Constantly improving and learning with an emphasis on creating something innovative and practical. Hoping to bridge the gaps between the digital and physical realms through both arts and science.

EDUCATION

Borough of Manhattan Community College
AS Engineering Science *GPA: 3.7*

Manhattan, NY
Sep 2023 - May 2025 (Expected)

Brooklyn Technical High School
High School Diploma Mechatronics & Robotics

Brooklyn, NY
Sep 2020 - Jun 2023

EXPERIENCE

Building Services 32BJ Benefit Funds
Data Architect Intern

Manhattan, NY
Jul 2024 - Present

- Administered Health, Pension, Retirement Savings, Training, and Legal Services benefits for over 100,000 SEIU 32BJ members
- Utilized advanced technologies like M365, Dynamics 365, Azure, AWS, SQL, Snowflake, and QlikView
- Contributed to health insurance legislation and policy proposals through data insights

CUNY CiPASS
Research Intern

Manhattan, NY
Feb 2024 - Present

- Investigated the relationship between different forces and deformation on different 3D printed samples
- Used Excel to chart data and create graphs, observed a linear trend between force applied and deflection. Noted the differences in Young's Modulus between each sample, which overall fell between 1.0 and 2.0GPa. When measuring differences infill patterns +/-45-degree infill out- performed 0/90-degree patterns
- Wrote abstract and created a poster with details of research, including presentation at school-wide poster session

Steel City Codes
Student Instructor

Brooklyn, NY
Oct 2022 - Mar 2023

- Instructed a cohort of 24 students on the fundamentals of Python programming, ensuring a strong grasp of core concepts
- Facilitated the development of critical problem-solving skills and technical proficiency through interactive lessons and activities
- Mentored students on individual and group projects, guiding them to create practical applications such as schedulers and task managers, thereby reinforcing real-world applicability of their skills

SKILLS

Programming Languages: C++, Python, HTML/CSS, MATLAB, Javascript
Software: Visual Studio, Git, Autodesk Inventor, Fusion 360, Excel

PROJECTS

ASEE 2024 Beaver Bot *Arduino, C++, Inventor, Breadboard & Soldering Tools*

Line follower robot intended to compete in ASEE 2024 robot design competition. Utilizes a line follower with PID controls to follow designated trail over river completing a loop. While completing the loop IR distance sensors detect stubs on each side activating servos to swipe sticks into the tray. After completing the loop tray is dumped into pond completing circuit.

Personal Website *HTML, CSS, AWS, Javascript*

Developed a personal website using HTML, CSS, and JavaScript. The site features a homepage with links to "About Me" and "Projects" sections, showcasing personal information and various projects. The design includes a structured layout with responsive elements, ensuring accessibility across different devices. Integrated a footer for easy navigation and maintained a consistent theme throughout the site.