Muhammad Khuzema Aslam

[LinkedIn](#) | 347-748-3040 | khuzemamura@gmail.com

EDUCATION

The City College of New York, New York **May 2023**
Bachelor of Engineering in Biomedical Engineering
- **Relevant Courses:** *Introduction to Computing*
- **Clubs:** *Biomedical Engineering Society – 2021, CCNY Robotics Club – 2021, Harlem Launch Alliance – 2021*

SKILLS

Software: ImageJ, MATLAB, Microsoft Office (Word, PowerPoint, Excel), TINA-TI, Multisim, Waveforms
Programming Languages: Python [Intermediate], C++ [Intermediate], HTML [Intermediate]

TECHNICAL PROJECTS

Electrocardiography Device
- **Conducted** 4 trials to **synchronize** multiple operational amplifiers and instrumentation amplifiers to **produce** an ECG machine and worked on waveforms program to collect data and **generated** ECG graphs
- **Designed** a comparator circuit to visually represent heartbeat by the speed of the flashing LED
- **Optimized** noise margin levels to improve accuracy by 35%

Temperature Sensor Circuit
- Built a **prototype** thermometer using operational amplifiers and temperature sensitive resistors
- Used 3+ LEDs to visually **represent** multiple temperature ranges, ranging from freezing cold to boiling hot

EXPERIENCE

Grove School of Engineering | *Tutor* Feb. 2022 – June 2022
- **Tutored** ~9 students regularly in Calculus 1-2, Physics 1-2, and junior level engineering courses
- **Maintained** records on each student being tutored, including follow-ups and periodic assessments
- Created individual study groups based on classes and **formulated** rigorous study guides for exam preparations

Nano Lab – City College of New York | *Research Lab Assistant* Jan. 2020 – June 2022
- **Performed** laboratory experiments including sample preparation, data collection, and experimental design. Used established protocols and **developed** new protocols
- **Conducted** 10+ trials in attempts to bind carbon nanotubes (CNT) to fluorescent dyes to **deliver** therapeutics
- **Resulted** in 3+ dyes being quenched while bound to the CNTs which would detach and fluoresce when it reached the target, confirming it has delivered to the target

LEADERSHIP

Project Basta | *Fellow* June 2022 – Present
- Selected to **participate** in a rigorous 10-week fellowship career prep program designed to support first-generation college students land a great entry-level position

Google Software Engineering Program (G-SWEP) via Project Basta, *Participant* Sept. 2022 – Jan. 2023
- Selected out of 90+ applicants to attend 10 weeks of hourly coaching sessions with a designated Google SWE coach to further develop technical problem solving and interview skills.