BENJAMIN TIGNOR

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EDUCATION	SUMMARY
Georgia Institute of Technology – Atlanta, GA, May 2023 Candidate for BS in Biomedical Engineering, GPA 3.96 South Lakes High School – Reston, VA, June 2019 Advanced Diploma, 42 college credit hours received GPA 4.67/4.0	I am passionate and skilled in biomedical engineering, leadership, and public speaking. I have held positions ranging from leading teams and conducting research to serving in public office. Through these experiences I have gained both technical and soft skill sets critical to success in the engineering and business world.

PROFESSIONAL AND ENGINEERING EXPERIENCE

Georgia Institute of Technology

Undergraduate Research Assistant | May 2020 - Present | Atlanta, GA

- Co-authored paper
- Computational modeling experience in R with PCA, PLSDA, PLSR, TSNE, UMAP, and correlation analysis techniques.
- In Lab working with HMSC's performing seeding, lifting, and low temperature storing techniques.

Fairfax County Public Schools

Board Member, Student Representative | July 2018 to July 2019 | Fairfax, VA

- Board member co-managing \$3 billion annual county budget
- School Board Student Representative directly to the 187,000 students within Fairfax County Public Schools, worked 20-30 hours a week: a total of 540 unpaid hours overtime
- Served as an active member of the school board, influencing policies and legislation on key issues such as school safety, mental health, and inclusivity within our schools
- Traveled nationally to conferences as both a speaker and an attendee

Brainlab – Medical technology company that develops solutions for image guided surgery and digital operating rooms Project Engineer, R&D | June 2018 to July 2018 | Munich, Germany

- Oversaw managing/designating projects and responsibilities to all interns and temporary employees within R&D
- Designed and constructed isolation chamber for calibration of surgical navigation system prototype
- Designed technique for mounting semi-opaque film 1mm +/- 100μm for vector positioning reference markers Custom
- Developed and built a 3-axis rotational mounting system for passive IR measurement system
- Managed \$2,000 budget in planning of corporate retreat

Brainlab – Medical technology company that develops solutions for image guided surgery and digital operating rooms Temporary Employee, R&D | June 2017 to July 2017 | Munich, Germany

• Designed, constructed, and implemented a portable, compact surgical aid assistant demo product for US sales representatives, in use in field today

ACADEMIC PROJECTS/RESEARCH

Biomaterial encapsulation of human mesenchymal stromal cells modulates paracrine signaling response and enhances efficacy for treatment of established OA Co-authored Study | August 2020

Responsible for computational modeling of MicroCT and Luminex data using PCA and PLSDA analysis

The Effects of Concentrations of Immobilized Yeast Within

500ul Alginate Beads on the Varied Efficiency of catalyzed Fermentation

IB Biology HL Internal Assessment | December 2018

- Discovered optimal cost vs. efficiency enzyme concentration, allowing enzyme immobilization to become monetarily accessible to new businesses/start ups
- Regional Science Fair 1st Place in Biomedical Engineering and Grand Prize Nominee 2018
- State Science Fair Patent and Trademark Office Society 1st Place Biomedical Engineering