

Loghan Thomas

Senior Engineer, Biomechanics Consulting and Research (Biocore) LLC
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EDUCATION

University of Virginia, Charlottesville, VA **December 2021**
Master of Engineering (Biomedical Engineering)

Dartmouth College, Hanover, NH **June 2020**
Bachelor of Arts (Engineering Sciences), Bachelor of Engineering (Mechanical Engineering)

WORK & RELATED EXPERIENCE

Senior Engineer – Biocore LLC, Charlottesville, VA **January 2022 – Present**

Engineer – Biocore LLC, Charlottesville, VA **January 2021-December 2021**

- Assisted with the construction and deployment of instrumented mouthpieces to track concussive impacts among football players in the NFL and NCAA.
- Conducted impact testing and research for the NFL Players Association to characterize and evaluate head collisions to inform position-specific helmet design.

Engineering Intern – Rawlings Sporting Goods, St. Louis, MO **Fall 2018 & Summer 2019**

- Collaborated with senior product engineers to develop over 20 projects from conception to production including research, prototyping, and quality assurance.
- Led development of protective gear and batting equipment including the Mach Pro and Mach Carbon MLB and MiLB batter helmets, commotio cordis chest protector insert, and Blast embedded sensor SmartKnob, as well as spearheaded research and testing of sound analysis on fastpitch bats as part of the 2021 Mantra fastpitch project.
- Learned to design and test products to meet the National Operating Committee on Standards for Athletic Equipment (NOCSAE) performance and safety standards.

Graduate Engineering Project – University of Virginia, Charlottesville, VA **August 2020 – December 2021**

Tibial Bone Tunnel Placement Guide for use during Primary ACL Reconstruction Surgery

- Worked with a partner to develop a novel surgical tool to assist with placement of the tibial bone tunnel in primary ACL reconstruction surgery.
- Communicated with members of the Orthopedic Sports Injury patient pathway including surgeons, athletic trainers, and physical therapists to identify and address areas of potential clinical improvement.

LEADERSHIP & ADDITIONAL ACTIVITIES

Dartmouth College Women's Varsity Softball, Hanover, NH **September 2016-May 2020**
Infielder, 2018 Ivy League Championship Team

- Developed leadership and teamwork skills through meetings, training, and competition.
- Selflessness Award 2017, Hardworking Award 2018.

D.R.I.V.E Leadership Program Certification, Hanover, NH **Summer 2018**

- 8 leaders out of 75 student-athletes chosen to lead teams through exercises for physical, intellectual, and personal growth.
- 6-week course focused developing leadership skills through classes and physical endeavors in varied terrains.

SKILLS

Software: SolidWorks, Adobe Illustrator, MATLAB, Python, R, DTS SLICEWare

Machining: 3-Axis Mill, 2-axis Lathe, Laser Cutter, 3D-Printer

Languages: Spanish (Intermediate)

Certifications: Certified SolidWorks Associate