

Francisco “Adam” Castiller

3140 Adell Way | Durham, NC 27703 | 845-242-2942 | a.castiller1212@gmail.com
[Portfolio](#) | [YouTube](#) | [LinkedIn](#)

Biomedical engineer seeking to design innovative medical devices utilizing emerging technologies such as virtual reality and robotics.

Education:

University of North Carolina at Chapel Hill and North Carolina State University 2020-2024

- Biomedical Engineering Major – Rehabilitation Engineering Concentration
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Work Experience:

Post-Market Engineer Oct 2024 – Present

Wilson-Cook Medical

- Wrote technical documentation and performed testing for EUMDR and APAC remediations
- Technical documentation includes non-clinical testing protocols/reports, design control traceability tables, biological evaluation reports, and other design verification/validation documentation for endoscopic devices

Undergraduate Assistant Jan 2024 – May 2024

University of North Carolina at Chapel Hill

- Designed and taught a 5-week “VR for Healthcare” module for Junior Design
- Each week taught fundamentals in Unreal Engine development and project ideation

Biomechanics Intern Aug 2024 – Oct 2024

8ctane Baseball/B. Young Physical Therapy

- Assisted in 3D Motion Capture data collections for pitching and hitting motions
- Wrote Python code for data analysis and machine learning to predict pitch speed given biomechanics data

Co-Founder March 2024 – Present

Dugout Entertainment, LLC

- Co-founded a music booking and production company to promote young artists and bands
- Main responsibilities include music-related project management, booking, accounting, and event planning

Bar-Back, Server, Barista, and Bartender August 2020 – Oct 2024

STIR, Gatsby's, Pantana Bob's, The PITCH, Lagoon Bar, Mellow Mushroom

- Learned how to stay organized, work in a high-pressure environment, diffuse situations, and communicate effectively with coworkers and customers

Volunteer Wrestling Coach August 2020 – Oct 2024

Tar Heel Kids Wrestling Club, Cardinal Gibbons High School

- Coached beginner-elite wrestling at the youth-high school level.
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Skills:

Technical: MATLAB, Simulink, Computer-Aided Design (CAD), Game Design (Unreal Engine and Unity), 3D Printing, Laser Cutting, Embedded Systems, Design for Manufacture, Circuit Design and Analysis (Analog and Digital), Control System Design and Analysis (Dynamic and Feedback), Mechanical System Analysis (Static and Dynamic), Robotics System Design, Technical Documentation Writing

Professional: Event Planning, Curriculum Development/Instruction, Communication, Organization, Teamwork, Service, Leadership, Positivity, Accountability, Project Management
