

Brooke Demetre

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SUMMARY

Innovative designer passionate about human-centered design and creative problem-solving. Skilled in prototyping, user research, and design thinking, with experience exploring healthcare technology as a domain of impact. A former Division I student-athlete and team captain, bringing strong leadership, collaboration, and resilience to fast-paced, cross-functional environments. Driven to design thoughtful, innovative solutions that improve everyday experiences and create real-world impact.

EDUCATION

Stanford University

June 2021 - June 2025

School of Engineering, Bachelor of Science in Design

Concentration in Human Behavior & Multi-Stakeholder Research Methods

- Specialized in **Healthcare Technology Innovation** through advanced biodesign and regulatory design methods, grounded in anatomy, medical device development, and FDA compliance
- Built a strong foundation in human-centered design, applying user-centric methodologies across diverse mediums including CAD modeling, digital wire framing, physical prototyping, and user research & testing
- Academic background in Biodesign Fundamentals, Technology Assessment & Regulation of Medical Devices, Capstone in Advanced Design, Digital Design Principles, Human Value Design, Product Design Methods and Realization, Matlab, Engineering Economics & Sustainability, Programming Methodology & Abstractions

SKILLS

Design & Technical: Proficiency in CAD (SolidWorks, Fusion 360), Figma, Adobe Creative Suite, Prototyping (physical & digital), User Research & Testing, Storyboarding, Human-Centered Design, experienced in Python, C++, Matlab, & R

Healthcare Innovation: Biodesign Process, Anatomy Fundamentals, Medical Device Concept Development

Leadership: Team Leadership, Event Organization, Collaboration, Coaching & Mentorship

Professional Strengths: Communication, Time Management, Adaptability, Creative Problem-Solving, Critical Thinking

WORK EXPERIENCE

Student Athlete & Senior Captain | *Stanford Women's Basketball*

June 2021 - April 2025

- Competed at the highest NCAA Division I level, advanced to the Final Four
- Elected team captain, leading team culture, fostering collaboration in a high-performance environment, and bridging the gap between athlete and staff by collaborating with coaches and teammates to adapt strategy, meet goals, and drive continuous improvement
- Balanced 20+ hours per week of training with travel, games and a rigorous, comprehensive academic work load

Basketball Coach & Skills Trainer | *Self-Employed*

April 2022 - Present

- Founded and organized the *Brooke Demetre Basketball Camp*, securing sponsorships, managing operational logistics, and leading marketing initiatives
- Provided 100+ private 1-on-1 training sessions, tailoring skill development and helping clients reach their goals
- Head coached three competitive teams ranging from third grade to high school level, planning practice plans, game strategies, and instilling disciplined habits both on and off the court
- Conducted youth camps at Stanford and local clubs, supervising and teaching participants while ensuring safety and engagement, prioritizing development, and creating a positive learning environment

Delivery Driver | *Doordash*

April 2020 - June 2021

- Managed high volume of orders during COVID-19 while a full time student and participating in athletics
- Completed 300+ deliveries and demonstrated reliability, adaptability, and maintained a 4.9/5 customer rating

REFERENCES

Tara Vanderveer | *Retired Head Coach | Stanford Women's Basketball*

Email: tarahoop@stanford.edu

Brett Newman | *Lead Lecturer, Advanced Design Capstone | Stanford University*

Email: bnewman@stanford.edu

