ANTONIUS PRADER

Highly creative, detail-oriented biomedical engineer with 4 + years of experience in end-to-end product development. Former D1 student-athlete with a passion for rapid prototyping, generative and analytical research — built a startup in 72 hours and quarter-finaled@ the largest startup competition in Europe and North America.

CONTACT

[redacted]

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EDUCATION

Tulane University,
New Orleans, LA

M.S. Biomedical Engineering '18

B.S.E Biomedical Engineering '17

SKILLS

3D CAD/3D Printing
Reverse Engineering
Data Analysis
Competitive Analysis
Design Thinking
MATLAB
Project Management
Product Design
Product Testing
Motion Analysis
Human Subject Testing
Footwear Development
Footwear Testing
Quality Assurance
Human-Centered Design
Market Research
Technical Writing
Laser Cutting

WORK EXPERIENCE

FORD MOTOR COMPANY Design Prototyper

2020-Present

Design and develop high-fidelity prototypes for generative (co-creation) and evaluative market research, ranging from full scale custom vehicle builds to 3D CAD models to hardware/software mock ups in an isolated feature-focused environment. These projects involved a human-centered design thinking approach to truly understand our prospective customer and validate their insights and beliefs through interactive experiences. The research topics consisted of ingress/egress, vehicle ergonomics, and vehicle accessibility.

WRSTBND Research and Development Engineer

June 2019 (6 Mo. Contract)

Led a cross-functional team of engineers and designers in end-to-end development, prototyping, and manufacturing of an RFID Scanner Kiosk to be used for access control at music festivals. This project involved designing an IP57 rated multi-faceted plastic enclosure that could be attached to a kiosk stand, scaffolding pole, fence, sit on a table and even adhere to a bike rack. My project responsibilities also included managing a 10K project budget and creating an RFQ for the fabrication of 40 kiosks.

FACTOR 10 Research and Development Engineer

2018-2019 (Contract)

Worked in 7-person cross functional team developing unexpected solutions to complex problems ranging from kids toys and shoes, omnidirectional wireless charging, in-line oil analysis,warehouse logistics,SEO optimization and sporting goods. This end-to-end product development process (3-6 monthsinvolved creating market viability reports, product feasibility reports, launch strategies, **RFQ's for manufacturing** , RFP's, prior art searches high-quality functional prototypes and engaging presentation along with consumer product testing and research.

Tulane University, Department of Biomedical Eng.
Graduate Teaching Assistant

2017-2018

Consulted 12 student-led teams for a 9-month long intensive to develop novel products and disruptive business models for industries ranging from medical devices and equipment, health products,sports equipment and sportswear. Educated students on human centered design thinking, rapid prototyping techniques such as 3D printing and wood working, and reverse engineering methods.

AlignMed Footwear Research and Development

2016-2018

Designed and tested a 1-month product testing protocol to quantify noted benefits of a novel fluid-channeling insole, AirFeet™, on the gait kinematics of individuals during daily physical activities. Developed algorithm to parse and analyze time-series data for over 500,000 data points.