

Trevor Schachner

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Education

University of South Carolina, Columbia, SC

M.S., Technology Innovation & Entrepreneurial Engineering • GPA: 3.9/4.0

Dec 2019

B.S.E., Mechanical Engineering • Minor, Music • GPA: 3.6/4.0

May 2019

Professional Experience

AMPED Association Management, Association Coordinator, *Alexandria, VA*

Jan 2020 – Present

- Expanded strategy for membership retention and improved user experience, growing membership by 10% in 2020
- As the scholarship program manager, automated process using Python reducing staff time to administer program by 50%
- Automated data reporting for membership and donation data with Python, saving 10 hours of staff time per month
- Implemented new donation system resulting in \$3,000+ of recurring revenue per month and 25% reduction in staff time

McNair Research Center, Graduate Research Assistant, *Columbia, SC*

May 2019 – Dec 2019

- Researched automated fiber placement (AFP) design and manufacturing techniques for aerospace applications
- Worked with university professors to determine requirements for replica defect models and prototype designs
- Created CAD models of AFP defects, 3D printed prototype designs, and revised catalogs of process defects

Zapp RideShare, Inc., Mechanical Engineering Intern, *Columbia, SC*

Aug 2018 – May 2019

- Project lead of mechanical engineering student team for a solar-powered e-scooter charging station on campus
- Developed product requirements and success metrics by interfacing with client, end users, and other engineering teams
- Managed timelines and deliverables through project and facilitated partnership with external solar technology company

Projects

Educational Product Prototyping, McNair Research Center

- Researched prior failures of AFP printing process to develop models and defect representations for educational purposes
- Fabricated fully modular bases and defects to increase adaptability of this project for future applications
- Published “3D Modeling and Printing of Automated Fiber Placement Defects” in the 2020 Composites and Advanced Materials Expo (CAMX) Proceedings

Human-Centered Product Design, Darla Moore School of Business & Sonoco Products Company

- Identified a new packaging design through the human-centered design thinking process emphasizing user experience
- Analyzed stakeholder and customer requirements to define constraints and metrics of success for the design
- Conducted testing of functional requirements and user acceptance to validate assumptions and metrics of success

Naptime, UofSC College of Engineering and Computing

- Led three-person team and created a lean-startup business plan for an on-campus coffee and “napping” café for students
- Created differentiation strategy, profit-loss estimates, 18-month budget, and risk-management plan for the business

Additional Experience

Marching Arts Designer & Project Manager, Self-Employed

Jan 2017 – Present

- Lead a team of five, writing music and movement for ten high school performing ensembles in the United States
- Work directly with clients to establish timelines, design requirements, and deliverables for each project
- Manage client relationships, communications, contracts, and internal operations for the design team

Legends Drum & Bugle Corps, Visual Instructor

Nov 2018 – Present

- Educate high school and college-age students on various marching and movement concepts
- Plan and implement curriculum for each rehearsal and assess students on their individual achievement

Carolina Crown Drum & Bugle Corps, Member & Leader

Nov 2014 – Aug 2018

- Competed in a 150-member top-three internationally ranked professional performing ensemble, touring the United States
- Served on leadership team assessing and refining daily operations and strategy to maintain a high level of excellence