

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

- Managed membership, databases, website updates, and back-end systems for two non-profit associations
- Automated renewals, registration, data reporting, scholarship applications by implementing new systems for each
- Expanded strategy for increasing membership retention and improving user experience, growing membership by 10%

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

May 2019 – Dec 2019

- Project-based research on automated fiber placement (AFP) design and manufacturing for aerospace applications
- Created CAD models of AFP defects, 3D printed designs, and revised catalogs of layup process defects
- Constructed 3D models for use in educational outreach at UofSC and the manufacturing community

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

Aug 2018 – May 2019

- Designed structure and internal components for a solar-powered charging station for on-campus e-scooters
- Lead CAD designer for project, performed finite element analysis and testing for final product
- Collaborated with electrical engineering team and solar tech company to design internal electrical components

Stäubli Corp., Engineering Intern, *Duncan, SC*

Jan 2014 – May 2014

- Crafted prototype components for robotic tool changer and 3-piece-assembly for product demos and conventions
- Assisted designers and engineers with projects focused on robotic applications in manufacturing and transportation
- Developed tooling kit for on-site repairs and installations using recommendations from field technicians

Projects

AFP Educational Prototyping, McNair Research Center

- Researched prior failures of AFP printing process to develop models and defect representations for educational purposes
- Fabricated 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

Design Thinking Sprint, Darla Moore School of Business, Sonoco Products Company

- Participated in a ten-day design sprint with Sonoco, a global packaging company, to sustainably re-design products
- Identified a new packaging design through the human-centered design thinking process emphasizing user experience
- Collaborated with team members of varying engineering and business backgrounds to complete the project

Naptime, UofSC College of Engineering and Computing

- Created lean-startup business plan for new on-campus coffee shop with “napping” areas for students
- Drafted differentiation strategy, profit-loss estimates, and a risk-management plan for the business
- Pitched presentation and business plan to angel investors for seed funding at UofSC

Additional Experience

Marching Arts Designer, Self-Employed

Jan 2018 – Present

- Write music and movement for seven high school performing ensembles in the Southeast
- Work directly with clients through the design, creation, and execution of each project

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 top-ranked professional performing ensemble each summer throughout college, touring the country
- Led a group of 16 individuals through a challenging year for the organization while maintaining a high level of excellence