

Education

Iowa State University *Graduation: May 2022*

- **Master's in Industrial Design**
- BS Mechanical Engineering - **3.72 GPA**
- Honors Societies: Tau Beta Pi and Phi Kappa Phi

École Polytechnique Fédérale de Lausanne *Switzerland Aug 2017 - Jul 2018*

- Mechanical Design Technical Courses in French and English with Technical Reports

Primary Technical Experience

Ride Engineering Competition Commissioner at *ISU TPEG Jun 2020 - Apr 2021*

- Designing annual hands-on **Engineering Competition** for themed entertainment college students
- Adapting **Systems Engineering, Risk Assessment** and **ASTM Standards** Compliance education
- Leading committee of Students, Faculty, and Industry Professional **Stakeholders**

Ride Maintenance Engineering Intern at *Morey's Piers Jun 2019 - Aug 2019*

- Performed daily and special **inspections** and **maintenance** on Great Nor'Easter roller coaster
- Assisted with **installation**, assembly and State **Commissioning** of new steel roller coaster
- Measured, filtered, and analyzed **accelerometer data** of major attractions per **ASTM** standards

Engineering Intern, Parts and Service at *Premier Rides, Inc Jan 2019 - Jun 2019*

- Managed orders of aftermarket replacement parts from initial **quote** to **shipment** and **invoice**
- Drafted engineering drawings in **Solidworks** and **AutoCAD** and aided in custom service solutions
- Worked closely with projects team on **ride vehicle design** for multiple projects

Engineering Intern at *Signode Industrial Group, Glenview, IL May 2017 - Aug 2017*

- Designed and implemented **Lean** inventory procedure for 10,000 piece part manufacturing facility
- Authored a **thorough** long-term **procedure** that outlined a 3 year adoption concluded in 2020
- Negotiated **quotes** from suppliers for **custom solutions** while saving over 20% of projected costs

Additional Experience

Founder and President of *ISU Theme Park Engineering Group Aug 2019 - Sept 2020*

- Created organization for **education** and **professional development** of engineering students
- Co-founded Themed Entertainment communication hub for over **350 students at 50 universities**
- Designed functional small scale roller coaster trains for home 3D printers

IAAPA Show Ambassador at *IAAPA Expo 2018 and 2019 Nov 2018, 2019*

- Volunteer chosen to facilitate trade show and conference on team of passionate industry leaders
- Facilitated educational sessions and special events for over 48,000 guests and exhibitors

Student Participant at *ASTM F24 committee Feb 2019 - present*

- Aided in revising **safety standards** for amusement rides and devices alongside professionals
- Joined **volunteer** Task Groups to provide initial research for disruptive advancements

Skills: **Extensive Solidworks** | **Additive Manufacturing** | **Electronics** | **French** | **Management** | **MS Office** | **MATLAB** | **C** | **Public Speaking** | **Mechanical Design** | **Customer Service**