

Education

Iowa State University *Graduation: May 2020*

- **3.72 GPA** - Mechanical Engineering Major
- 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

Technical Experience

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
- Reassembled suspended roller coaster train after replacement of multiple components
- 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 final 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 is still being used as of October 2018
- Negotiated quotes from suppliers for custom solutions while saving over 20% of projected costs

LSM Model Project Lead for *Critical Tinkers Student Group Aug 2018 - present*

- Designing small scale PM LBM Linear Synchronous Motor with multi-disciplinary student team
- Building custom mechanical and electronic components and software for closed-loop control
- Researching technical papers and texts to gain a better understanding of linear motor systems

Additional Experience

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

- Created organization for education and professional development of engineering students
- 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 42,000 guests and exhibitors

Student Participant at *ASTM F24 committee Feb, Oct 2019, Feb 2020*

- Aided in revising safety standards for amusement rides and devices alongside professionals
- Joined volunteer Task Groups on internal reference accuracy and universally accessible design

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