

Adrian Tran

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Summary of Qualifications

- CAD/FEA: SolidWorks, Solidworks Simulation, ANSYS Static and Dynamic.
- Fabrication Techniques: Injection molded plastics, sheet metal, CNC parts, Mill, Lathe, MIG Welding, SLA 3D printing, general hand tools.
- Other software: Product data management software (JDE), product lifecycle management software (Teamcenter), Microsoft Office products.

Work Experience

Associate Mechanical Design Engineer, Assa Abloy EMS, Tempe, AZ May 2021 – September 2022

- Worked as a design engineer in new product development and brought designs from concept to early production. Contributions include 1 product and several redesigns.
- Redesigned an existing product that resulted in 50% faster retraction time and allowed for retrofitting. The retraction time was estimated within 15% from concept to prototype.
- Utilized Solidworks, SW Simulation, and PDM/PLM software to complete project tasks.

Field HVAC Intern, ATC Group Services, Tempe, AZ June 2019 – September 2020

- Fulltime internship, worked on a small team conducting visual inspection and tagging of facility equipment and HVAC equipment.

Projects

Rocket Club, Northern Arizona University, Flagstaff, AZ November 2020 – Present

- Teamwork driven High-Powered rocket competition. Worked on simulation and build teams.
- Modeled rocket in SolidWorks and RockSim to achieve an estimated altitude of 3,500 ft and 3,800 ft for the 12th and 13th annual First Nations Launch (FNL) competitions.
- Selected recovery hardware based on simulation predictions to ensure a successful recovery and predicted apogee within 5%.

Dynamic Ankle Foot Orthosis, NAU, Flagstaff, AZ November 2019 – January 2020

- A capstone project with the goal of developing an iteration of an existing ankle foot orthosis device (AFO) that utilizes leaf springs to correct missing ankle rotation.
- Designed mechanical parts to meet engineering and customer requirements and fabricated parts from technical drawings to meet required tolerances.
- Conducted FEA analyses to confirm critical parts had a factor of safety of 1.5 or greater.

Education

Northern Arizona University, Flagstaff, AZ

Expected Graduation Date: December 2022

B.S Mechanical Engineering

GPA: 3.0