

COLLIN J. MEISSNER

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SUMMARY AND SKILLS

Mechanical engineer with strong design, analysis, and problem-solving skills looking to secure a full-time position

- Proficient in SolidWorks, Autodesk Inventor, Creo, Catia, Lotus Shark, Photoshop, Microsoft Suite
- Trained on lathe, 3D printer, laser cutter, water jet, vertical mill, TIG welder, and other common shop tools

EDUCATION

Johns Hopkins University

Bachelor of Engineering, Mechanical Engineering (GPA 3.7)

Baltimore, MD

Expected May 2020

- Honors/Awards: Dean's List (Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019)

WORK EXPERIENCE

Blind Industries & Services of Maryland, Baltimore, MD

August 2019-Present

Design Engineer: Working on team of 3 for senior design project to develop a forklift for blind operators

- Implementing computer vision system that detects people and uses homography to calculate their distance
- Developed wheel-speed sensors to calculate velocity and heading of the forklift

Stanley Black&Decker, Towson, MD

June 2019-August 2019

Intern: Worked full-time in the outdoor power department doing prototype design and testing

- Fully designed and built a battery-powered water cooler and pitched the idea to company executives
- Developed a prototype for a new cordless Craftsman lawn mower using Catia V5
- Designed and built two prototypes for demonstrating blower performance against competitive units

XStream Trucking, San Mateo, CA

June 2018-August 2018

Intern: Worked on panel development at hardware startup that makes active aerodynamics for the trucking industry

- Designed and built a full working prototype of the aerodynamic device to test different materials
- Began assembly in Salisbury, North Carolina of the active aerodynamics onto compressed natural gas trucks
- Set up the hand cutting of the panels at a manufacturing facility in Agua Prieta, Mexico

FactoryFour, Baltimore, MD

May 2017-August 2017

Intern: Worked full-time at tech startup doing design and prototyping

- Used Autodesk Inventor to design a stable 3D model of wearable glasses that could be automatically fitted to a 3D facial scan and saved for 3D printing
- Developed a CAD model that intelligently organized glasses into a batch for 3D printing based on their size
- Designed and built two working prototypes of a photogrammetric scanner for cranial helmets

CLUBS AND ACTIVITIES

Johns Hopkins Baja, Baltimore, MD

August 2016-Present

Team Captain: Lead a team of mechanical engineers to fully design and build an off-road, four-wheel drive vehicle for the Baja SAE racing competition

- Run weekly team meetings, schedule workflow, and direct the team each workday
- Spearheaded the design of an entirely new 4WD drivetrain system for the 2020 vehicle
- Designed the suspension geometry and rear suspension for the 2020 vehicle
- Led the suspension sub-team for the 2019 top-ten, award winning vehicle

Johns Hopkins Rocketry, Baltimore, MD

October 2018-June 2019

Structures Lead: Compete on a multidisciplinary team that fully designs and builds a hybrid rocket for the Spaceport America Cup Competition 30,000 feet category

- Directed all design and build for the airframe and structural components of the competition rocket
- Designed, manufactured, tested, and launched a Level 2 Class L rocket as a prototype and testing platform