**Ian Zyvith**

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**Objective**

Creative and quick-learning Mechanical Engineer with experience in CAD design and analytical simulations. Seeking a full-time position which will allow myself to use my team oriented and computer skills to obtain hands-on experience in engineering design processes and project management.

**Technical Skills**

Solidworks

Matlab

Adobe Premiere Pro

COMSOL

Python

Computer Proficiency

Microsoft Office

Adobe Photoshop

Labview

**Project Experience**

**Lead Designer, Engineering Capstone Project**

*September 2019 - May 2021*

* Conceptualized and designed a unique method of harvesting wind energy, which converted mechanical energy into electrical energy using Solidworks and COMSOL Multiphysics Software.
* Spearheaded a team of 6 throughout the entire project lifecycle including research and development, product design, prototyping, and testing to ensure deadlines were met and stakeholder requirements were exceeded.
* Use of Engineering Change Order forms aided in keeping both team members and stakeholders informed on design and manufacturing changes made.

**Model Designer, Swimming Fish Analysis Project**

*September 2020 - May 2021*

* Utilized an idealized model of a swimming fish to extrapolate data of forces and stresses in order to calculate efficiencies and verify theories on how a fish changes directions in water.
* Designed an analytical 2D model to analyze the elements around a swimming fish in water using COMSOL Multiphysics Software.
* Executed research to determine the parameters required for the simulation.
* Results showed noticeable pressure differences between the fins of the fish which were determined to be the cause of changes in direction.

**Work Experience**

**Sales Associate, Guitar Center**

*November 2021 - Current*

* Performed sales operations including POS, opening, closing, stocking, product knowledge and customer relations

**Education**

Bachelor of Science in Mechanical Engineering, Rutgers University, 2017-2021