

Nisan Yevdaev

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OBJECTIVE Seeking to apply my CAD/hands-on design skills and passion for renewable energy towards an internship in Mechanical Engineering. Available May - August 2021.

EDUCATION **University of Michigan** **Ann Arbor, MI**
Bachelor of Science in Engineering in Mechanical Engineering *April 2023*
Minor in Computer Science *GPA: 3.97/4.00*
Coursework: Solid Mechanics, Thermodynamics I, Design and Manufacturing I, Sustainable Engineering Principles, Programming and Introductory Data Structures
In Progress: Dynamics and Vibrations, Mechanical Behavior of Materials, Data Structures and Algorithms

EXPERIENCE **University of Michigan Solar Car Team** **Ann Arbor, MI**
Auxiliary Mechanical Projects Lead *Sept. 2019 - Dec. 2020*

- Led material selection research for a new flexible fairing mechanism to minimize loss due to drag, increase tire/motor serviceability and save substantial time during the race
- Researched and documented design methodologies for simpler, more aerodynamic locking, array stand, canopy hinge and windowed fairing mechanisms
- Modeled potential steer arm designs in NX to determine the optimal turning angles to pass regulations and ensure vehicle stability while saving manufacturing time/costs
- Collaborated on the final steering system design for the 2020 American Solar Challenge

Eniola-Adefeso Lab in the Chemical Engineering Dept. at U-M NCRC **Ann Arbor, MI**
Research Assistant *Nov. 2019 - Mar. 2020*

- Executed protocols involving particle fabrication and communicated the results to my research mentor weekly through the Undergraduate Research Opportunity Program
- Investigated vascular targeted drug delivery with a focus on the effects of concentration and hydrophobic monomers on the synthesis of PLGA particles with zwitterionic coatings
- Analyzed the chemical structure of molecules using nuclear magnetic resonance (NMR) to identify the impact of certain modifications on the particles' ability to avoid detection by the human immune system

Magic Home Care **Brooklyn, NY**
Data Entry Clerk *June 2019 - Aug. 2019*

- Digitized and organized hundreds of patient records so as to expedite the transition to an exclusively electronic system and reduce search time for important documents by hours
- Corresponded with over 100 caregivers in both English and Russian to communicate changes in policy and new employment requirements

SKILLS

Technical:	Engineering Drawings, 3D Printer, Mill, Lathe, NMR, SEM
Languages:	Java, C++, MATLAB, Arduino
Applications:	Siemens NX, SolidWorks, Altair HyperWorks
	Proficient in AutoCAD, Autodesk Inventor, Formlabs Preform

LANGUAGES Russian, Spanish

ACTIVITIES

Mathnasium - Math Tutoring Center, Instructor	<i>Jan. 2021 - Present</i>
Tau Beta Pi Engineering Honor Society - MI Gamma	<i>Sept. 2020 - Present</i>
American Society of Mechanical Engineers (ASME)	<i>Sept. 2020 - Present</i>