

# Nicholas Rovito

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Murphy, TX 75094

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## SKILLS SUMMARY

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- SOLIDWORKS Associate Mechanical Design Certification, ANSYS Fluent, Visual Factory, Microsoft Office Suite

## EDUCATION

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**Bachelor of Science in Mechanical Engineering** May 2023  
**Bachelor of Arts Spanish Language** May 2023  
Minor in Mathematics May 2021  
University of Arkansas, Fayetteville, AR | GPA 3.85

## ENGINEERING-RELATED EXPERIENCE

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**Oscillating Foil Energy Harvesting Research Project**, University of Arkansas September 2022 – August 2023

- Member of a team that conducted research on power output and efficiency of Oscillating Foil Energy Harvesters (OFEH) for use in tidal estuaries.
- Formulated mathematical models, optimization analysis, and implemented ANSYS Fluent to computationally test and optimize the effects of a 9-dimensional systems on energy output and efficiency.

**Fastener Distribution Senior Design Project**, University of Arkansas, Kawneer August 2022 – May 2023

- Member of a 5-person team that designed and assembled an apparatus that orients and racks screws and bolts for Kawneer's paint line.
- Completed a design report that included detailed design work, drawings, diagrams, engineering analyses, vendor part descriptions, and parts lists.

**EPIROC Internship**, EPIROC, Garland, TX June 2021 - August 2021

- Worked as an intern with the Epiroc Manufacturing Engineering team to improve the production of blast hole drilling rigs using principles of lean engineering.
- Specific projects and activities included: Cab Assembly production and operation changes, electrical documentation, and engineering drawing interpretation through Visual Factory and Creo Illustrate.
- Prepared a presentation to show progression and report results.

## MANAGEMENT EXPERIENCE

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**Head Lifeguard**, City of Plano, Plano, TX May 2019 - May 2022

- Selected from 80+ person staff to lead a team of up to 27 lifeguards during swim hours to ensure pool safety by organizing lifeguard rotation, administering safety audits, organizing pool cleaning, running in services, maintaining first aid availability, and communicating with various city swim programs to ensure lane availability.
- Monitored and maintained pool chemistry and water levels for an Olympic indoor swimming pool and outdoor pool.
- Communicated with the public to answer questions about pool safety rules, general facility questions, and resolved conflicts between patrons.
- Required Certifications Included: Lifeguard Instructor Training, Lifeguarding, Shallow Water Lifeguarding, Water Park Lifeguarding, CPR/AED for the Professional Rescuer, First Aid, Administering Emergency Oxygen, Epinephrine Auto-Injector training, and Blood-borne Pathogen training.

## TEACHING EXPERIENCE

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**STEM Tutor**, Do College Better, Fayetteville, AR January 2022 – July 2023

- Work as an individual and group tutor for: Calculus track (College Algebra - Calculus III), Physics, and Mechanical Engineering classes.

**Linear Algebra TA**, University of Arkansas, Fayetteville, AR September 2021 - December 2021

- Assisted with 2 linear algebra classes in grading homework, quizzes, and exams. Communicated with the professor to advise on concepts that students were not understanding based on homework accuracy.

## LANGUAGES

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- Spanish

## HONORS

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**Dean's List**, University of Arkansas Fall 2019 - Spring 2023

- Recognizes undergraduate students who achieve a 3.75 – 3.99 grade-point average for the term while completing at least 12 credit hours normally required for graduation.

**Chancellor's List**, University of Arkansas Fall 2020, Spring 2022, Spring 2023

- Recognizes undergraduate students who achieve a 4.0 grade-point average for the term while completing at least 12 credit hours normally required for graduation.