

# Ralph Audi



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## SUMMARY

- Third-year mechanical engineering and French student offering manufacturing engineering internship experience, research experience with finite element analysis, personal project development experience, and leadership experience through BMES Project Manager position and E-Lead curriculum.
- **Skills:** MATLAB, SolidWorks, Excel, Ansys LS-Dyna, French, Arabic, English

## EDUCATION

MARQUETTE UNIVERSITY, Milwaukee, WI

Expected May 2027

**Bachelor of Science in Mechanical Engineering**

GPA: 3.953/4.000

**Concentration:** Innovation Leadership; **Minor:** French

## WORK EXPERIENCE

GE HEALTHCARE – REPAIR OPERATIONS CENTER, Oak Creek, WI

**Operations Management Leadership Program (OMLP) Manufacturing Engineering Intern** May 2025 – August 2025

- Compiled and centralized product maintenance data for all 7,000 PCS Demo inventory items across 200 distinct product types by analyzing 100,000+ pages of technical documentation and integrating data from multiple platforms, streamlining daily shipment workflows and saving 6 hours/day for the manufacturing team.
- Authored technical documentation for new data tools and process changes, leveraging deep departmental knowledge and advanced writing abilities to ensure clarity, usability, and regulatory compliance.
- Successfully resolved a CAPA investigation by implementing data-driven process improvements, enhancing quality standards and reducing operational risk.

MARQUETTE UNIVERSITY EDUCATIONAL OPPORTUNITY PROGRAM, Milwaukee, WI

**Physics Tutor**

September 2024 – December 2024

- Delivered tailored support to college students from underprivileged backgrounds by leveraging extensive subject knowledge to create customized lesson plans, enhancing students' understanding and academic performance.
- Improved average test score by 10%.

CLEMENT J. ZABLOCKI VA MEDICAL CENTER, Milwaukee, WI

**Undergraduate Research Assistant**

May 2024 – October 2024

- Modeled a truck-to-pedestrian collision across two impact positions using Finite Element Modeling (LS-Dyna) to present a case for improved testing regulations and patient care standards.
- Conducted extensive literature search across 50+ previous vehicle-to-pedestrian collision studies to retrieve data for validation of the computational model and to strengthen personal understanding of the research area.

## NBA STATISTICAL DATA ANALYSIS PROJECT

February 2024 – June 2025

- Found betting pattern by leveraging statistics background to achieve 4-figure profit across 50 minimal, straight bets.
- Semi-automated data collection and cleaning processes despite inconsistent data availability by developing MATLAB software and Excel tools, reducing lead time by 98% per game.

## ACTIVITIES

BIOMEDICAL ENGINEERING SOCIETY (BMES),

September 2023 – Present

• **Project Manager, MUSCLE MUSIC PROJECT**

August 2025 – Present

- Designed system to convert EMG signals to digital music with a novel enclosure adapted for autonomous use by those with limited mobility.
- Led team of 30+ students, employing leadership and technical experience to direct team to success.
- Spearheaded initiatives that resulted in a 115% increase in BMES membership.

• **Volunteer, OUTREACH INITIATIVES**

September 2023 – Present

- Constructed miniature cars for children with mobility disabilities, enhancing mobility and independence.
- Taught engineering topics to 30+ middle school students, introducing them to new ideas and opportunities

**Mentee, MARQUETTE MENTORS; Member, TAU BETA PI; Player, INTRAMURAL SOCCER & FUTSAL**

## HONORS

EXCELLENCE IN ORAL EXPRESSION AWARD

April 2024, April 2025

- Awarded for the best French pronunciation in the Marquette University French Department.

2<sup>ND</sup> PLACE - MARQUETTE UNIVERSITY INNOVATE-O-THON

September 2024

- Recognized for developing a top solution to address a real-world problem in 8 hours for Marmon Holdings, Inc.