

# SHADEESHA RANMUTHU

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## Summary

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Dedicated Mechanical Engineer with experience in competency in Engineering Fundamentals, Machine Designing, Compressible Flow, Thermal Sciences, and Wind Energy. Skilled at modeling designs in SolidWorks, analyzing and simulating on MATLAB & QBlade. Passionate in Aeronautical Engineering and Automotive Industries.

## Education

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**Northern Arizona University – Flagstaff, AZ** **Expected in May 2023**  
**Bachelor of Science, Mechanical Engineering**  
**GPA - 3.55**     Dean's List  
Scholarship - International Excellence Award  
Awarded for Good Academic Standing and University Involvement

## Technical Skills

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CAD, MATLAB, Machine Designing, Stress - Strain Analysis, Mass & Heat Transfer Analysis, Product Analytics

## Research and Projects

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**Collegiate Wind Competition 2023 - U.S. Department of Energy** **August 2022 to Present**  
**Capstone Project - Develop preliminary designs for a prototype wind turbine and hypothetical wind farm site.**  
**Position - Design Engineer, Blades**

- Collaborate in a sub team of three to design and build a prototype blades and turbine for a wind turbine.
- Performed a State-of-the-Art literature review on turbine design.
- Prepare Conceptual design for the turbine by Twenty-Seventh of October 2022.

**SAE Aero Design Regular Project (Junior Project)** **Jan 2022 to May 2022**  
• Collaborate in a team of four to develop, design, and prove the concept of a fully functioning RC airplane for an international competition.  
• Performed a State-of-the-Art literature review on RC airplane propellers and proposed a Wooden fixed-pitch propeller with increased efficiency of torque and thrust coefficients.

## Work Experience

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**Center for International Education - Northern Arizona University** **May 2022 to Present**  
**Position - Administrative Assistant at International Admission & Evaluations**  
• Use independent judgment and initiative to assist the Admissions and Recruitment Team in daily tasks.  
• Manage, execute and follow-up of special projects as assigned for Graduate Admission coordinators.

**College of Engineering, Informatics & Applied Sciences - Northern Arizona University** **Jan 2022 to Present**  
**Position - Student Ambassador**  
• Represent the College of Engineering, Informatics & Applied Sciences in a public relations role.  
• Provide tours to prospective students, greet industry representatives conducting on-campus interviews & assist with events.  
• Meet individually with prospective students during walk-in hours or through emails.  
• Enhanced communication, teamwork, and time management skills.

## Additional Experience

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Member of NAU Energy Club | Member of Formula SAE team