

RUTVEEK INGAWALE

+1 (386) 331-6972 | ingawale15rutveek@gmail.com | <https://www.linkedin.com/in/rutveek-ingawale/>

Daytona Beach, Florida



OBJECTIVE

To obtain a technical engineering co-op or internship position emphasizing in structural design and manufacturing.

EDUCATION

Embry Riddle Aeronautical University

Bachelor of Science in Aerospace Engineering with Honors

Minors: CAD manufacturing, Applied Mathematics

Daytona Beach, Florida

May 2027

GPA: 3.9/4.0

SKILLS

Technical Skills: CATIA-V5 Design, MATLAB, AutoCAD, SOLIDWORKS, Microsoft Office Suite, Graphic Designing, Stress Analysis

Soft Skills: Leadership, Communication, Teaching, Creative Thinking, Management, Adaptability, Flexibility, Organization

CERTIFICATIONS

- Dassault Systèmes:** CATIA V5 SPECIALIST - Mechanical Designer, CATIA V5 Part, CATIA V5 Assembly March 2024
- College Reading & Learning Association:** Certified Tutor, Tutor of the Month (April) January 2024

WORK EXPERIENCE

Novineer, Inc | Mechanical Engineering Design Intern

Jun 2024 – Present

- Designed and optimized mechanical parts using CATIA and SOLIDWORKS, ensuring efficient performance through stress analysis and optimization techniques, increasing the strength to weight ratio up to 64%
- Created detailed technical documentation and supported product testing by conducting virtual simulations and analyzing mechanical integrity under various load conditions

ERAU Engineering Fundamentals | Teaching Assistant & Engineering Tutor (CATIA & MATLAB)

Jan 2024 – Present

- Guided students for 20+ hrs per week through complex 3D modeling assignments in CATIA, promoting the connection between theoretical concepts and practical applications
- Provided detailed feedback while grading 103 students every week, offering extensive mentoring

ERAU Information Technologies | IT Lead Dispatcher

Oct 2023 – Present

- Efficiently coordinated and processed over 75 IT service requests per week, ensuring prompt and effective responses and assistance
- Managed front desk operations and handled inventory of equipment, ensuring timely support and delivery for seamless IT support

PROJECT EXPERIENCE

ERAU Undergraduate Research | Research Assistant

Sept 2024 – Present

- Conducting research on self-healing polymers with a focus on pressure sensing applications, contributing to advanced aerospace materials development
- Researching to evaluate polymer response under various conditions, documenting findings and presenting results in formal reports

AIAA Design, Build, and Fly | Design Engineer

Aug 2023 – Apr 2024

- Designed and built payload structures for unmanned aircraft systems (UAS), improving weight distribution and stability through innovative interlocking mechanisms
- Actively participated in design reviews, presenting design concepts and modifications to team members and faculty advisors

CATIA-V5 Lego set project | Mechanical Designer

Aug 2023 – Dec 2023

- Designed a Shark Lego set which contains 230 pieces using Reference elements, Base, Dress-up, and Transformation features. Also used assembly module and tools to assemble parts.
- Modified by manipulating the constraints to move and created an animation where the assemblies move in one degree of freedom.

INVOLVEMENTS

Embry-Riddle Student Government Association | College of Engineering Senator

Jan 2025 – Present

- Establishing initiatives such as a student advisory board and research bulletin boards to enhance student engagement.
- Representing 4,000+ engineering students, advocating for academic and professional growth.

Society of Asian Scientists and Engineers | Professional Development Chair

Jan 2024 – Present

- Managed the Professional development events and coordinated corporate field trips
- Facilitated workshops, seminars, and panel discussions on topics relevant to members' career development

Embry-Riddle Sikh Student Association | Founding member and Public Relations Officer

Aug 2023 – Present

- Founded the organization based on Sikh principles with an ambition of helping the community and giving back to nature
- Managing the relations between the faculty, students, community leaders, and volunteering organizations around the area

Center of Career & Professional Development | Student Ambassador

Aug 2023 – Present

- Serving as a liaison between the Career Services and the student body, promoting career resources and opportunities
- Assisted in organizing and executing workshops, career fairs, and professional development events

PUBLICATION

- Madiyar, Foram, et al. "Sensor for Human Motion Monitoring Utilizing Tough, Self-Healing, Polyurethane Elastomer." Aerospace Research Central, 3 Jan. 2025, arc.aiaa.org/doi/10.2514/6.2025-1028.