# Victoria Abell

**Active Secret Security Clearance** | 830-312-9210 | victoriaabell24@gmail.com


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**Texas A&M University**, College Station, Texas
*B.S. Mechanical Engineering*, May 2026
**GPA:** 3.9 | Engineering Honors

**Undergraduate Research: Computational Thermo-Fluids Lab** *August 2025– Present*
Conducting research under Dr. Jarrahbashi on DNS-based modeling of hypersonic droplet drag and breakup.

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**EXPERIENCE**

**Raytheon Technologies (RTX)** *May 2025– Present*
*Mechanical Engineering Intern and Co-op* | Tucson, AZ & Remote

- **Active Secret Security Clearance**
- Produced 40+ technical drawings with GD&T analysis for an initial release test system.
- Designed an antenna mounting bracket for RF test system integration.
- Conducted technical peer reviews for design validation.

**Rheem Manufacturing (Friedrich AC)** *June 2024 – December 2024*
*Mechanical Engineering Co-op* | San Antonio, TX

- Developed a **patent-pending** airflow optimization device improving efficiency.
- Led R&D, testing, and CFD analysis for fluid optimization.
- Designed HVAC components in SolidWorks, optimizing energy, airflow, and cost.

**TAMU Solar Car Race Team** *May 2024 – Present*
*Aeroshell Engineer & Senior Capstone*

- Secured a **$100k** Siemens software sponsorship to support design & simulation efforts.
- Conducted **Star CCM+ CFD simulations** for aeroshell development.
- Performed mesh optimization under various turbulence models.

**Engineering Study Abroad — Art et Métiers** *Summer 2024*
Aix-en-Provence, France

- Lived abroad for six weeks, adapting to a new culture while collaborating with French students and professors on a pressure vessel design project.

**Schlitterbahn Waterparks** *2022, 2023*
*Aquatics Team Lead* | New Braunfels, TX

- Supervised daily operations for 30-50 lifeguards, ensuring safety and efficiency.

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**PATENTS, CERTIFICATIONS, & SKILLS**

- **Provisional Patent** Airflow optimization in HVAC design (*February 2025*)
- **Technical Skills:** Creo, CAD, CFD, ASME Y14.5, MS Office, R&D, OpenFOAM, PDM Windchill
- **Certified SOLIDWORKS Associate in Mechanical Design** (*January 2024*)