Megan Cervenka

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EDUCATION

Texas A&M University | College Station, TX **May 2029**

Bachelor of Science in Mechanical Engineering *GPA: 4.0/4.0*

- CAD Design, Materials and Manufacturing, Mechanics (Statics), Python Programming.

James Bowie High School | Austin, TX **August 2021-May 2025**

Biotechnology CTE Pathway *GPA: 4.51/5.0*

- Completed 4 years of Biotechnology and STEM focused electives, Obtained BACE (Biotechnology Aptitude and Competency Exam) certification.

SKILLS

- *Programming & Software:* Python, GitHub, Microsoft Office (Word, Excel, PowerPoint).
- *CAD & Manufacturing:* SolidWorks, Rigid Body Dynamics, Design for Manufacturability (DFM), Material Selection.

PROJECTS

Ride Engineering Competition (REC) Project | College Station, TX **September 2026 – Present**

Mechanical Engineering Sub team

- Designed 3D CAD track components and evaluated chassis material selection for functional scale roller coaster, optimizing track geometry, and wear resistance to survive 8-hour continuous duty cycle.
- Collaborated with multidisciplinary sub-teams to integrate 3D track components with brake, launch, and drive subsystems.

FASH – TURTLE Robotics | College Station, TX **September 2026 – Present**

Structural & Mounting Sub team

- Researched and selected high-strength, lightweight textiles and strap assemblies to design an ergonomic wearable harness that maximizes dancer mobility, prevents slippage, and evenly distributes dynamic wing loads across torso and hips.
- Fabricated initial prototype harness structures and hardware by integrating 3D printed mounting plates with strap assemblies for mechanical wing movement testing and actuation.

Lorefest Haunted Attraction 2026 | Bryan, TX **October 2026**

Station Lead & Prop Fabricator

- Navigated venue constraints to design, select materials for and install interactive prop systems for dedicated attraction section, performing on-site measurements and mounting to guarantee structural integrity and seamless operational flow

Hatchling – TURTLE Robotics | College Station, TX **January 2026 – May 2026**

Hardware & Design Team member

- Executed full design-build-test cycle of competition robot within 15-week semester, utilizing SolidWorks CAD, C++, electronics fundamentals, and hands-on fabrication under tight semester deadlines.

LEADERSHIP & ACTIVITES

Theme Park Organization (TPO) | College Station, TX **August 2026 – Present**

Socials Chair

- Organized and led themed social outings for 30+ organization members, coordinating logistics, scheduling, and rideshare.

Texas A&M Math Circle | College Station, TX **November 2025 – Present**

Facilitator

- Supported math skill development for young students by providing one-on-one math assistance and help maintain an organized, positive, and well-managed learning environment.

EXPERIENCE

H-E-B | Austin, TX **June 2024 – November 2024**

e-Store Employee

- Fulfilled customer grocery orders and provided curbside assistance.