

# Aarathi Devakumar

[aarathi.devakumar@gmail.com](mailto:aarathi.devakumar@gmail.com) | (510)320-6977 | Wylie, TX 75098 | [linkedin.com/in/aarathi-devakumar/](https://www.linkedin.com/in/aarathi-devakumar/)

## EDUCATION

**Texas A&M College of Engineering** | B.S in Multidisciplinary Engineering - Mechatronics

**College Station, Texas – May 2028**

**GPA:** 3.83

**Extracurriculars:** Theta Tau Co-Ed Engineering Fraternity, Society of Women Engineers (SWE), Society of Mechatronics Engineering Technology (SOMTECH), American Society of Mechanical Engineers (ASME)

## SKILLS

**Skills:** Robotics, Autodesk Inventor, Fusion 360, Solidworks, Onshape, 3D Printing, CAM, Java, Python, HTML, CSS, Matlab, Soldering, Embedded Systems, Problem-Solving, Project Management, Social Media Content Creation

**Interests:** Robotics and Mechatronics, Design, Social Media, STEM Education, Fashion Design, Sustainability

**Awards:** Girl Scout Gold Award, President's Volunteer Service Award, VEX Robotics IRHS Service Award

## RELEVANT EXPERIENCE

**T.U.R.T.L.E Robotics** | College Station, TX

**March 2024 – Present**

*Fashionable Assistive Spinal Harness Project Lead*

**May 2025 – Present**

- Guided a team to design a wearable smart corset to alleviate back problems and improve posture
- Combined interdisciplinary skills in fashion design and embedded systems to enhance wearability and aesthetics

*Quadrupedal Team Member*

**March 2024 – Present**

- Established sketches and collaborated with team on chassis and leg performance weight ratio through SolidWorks
- Designed a sturdy test stand for a quadrupedal robot to explore its walking, running and jumping capabilities
- Developed detailed and multicolored CAD models through SolidWorks and designs for additive manufacturing

**STEM Chinese Association for Science and Technology at UT Dallas** | Student Researcher | Richardson, TX

**June 2024 – July 2024**

- Conducted research on edible robotics, an upcoming field in the robotics industry
- Analyzed vegan food products and conducted various material and trial-and-error tests
- Compared non-edible vs edible materials using tensile and hydrophobicity tests

**TAMUHack** | *Hardware Competitor* | College Station, TX

**January 2025**

- Designed a 3D-printed stable base structure in SolidWorks for a missile guiding system in a competitive field of 460+ Texas university teams
- Soldered and wired sensor connects to Arduino, ensuring 100% reliability and functionality for the design overall

**WIRED (Women in Robotics Engineering and Development)** | College Station, TX

**August 2024 – Present**

*Development Committee - Public Relations Officer*

**November 2024 – Present**

- Planned various events to connect various WIRED teams together
- Collaborated with team and identified available times and locations, also managed calendars and spreadsheets
- Designed aesthetic social media content to enhance online interaction and presence of the organization through Canva

*VEX U Robotics Mechanical Team Member*

**August 2024 – February 2025**

- Engineered and refined drivetrain chassis for mobility
- Optimized scoring mechanism prototypes, such as chain intake and pneumatic hook through iterative testing
- Utilized specialized robotics materials for advanced prototyping

## WORK / INTERNSHIP EXPERIENCE

**ENDEAVR Institute** | Sustainability Intern | College Station, TX

**July 2025 – Present**

- Internship through course URPN 203 (Smart Cities - Bit, Bots and Beyond)
- Explored historic perspectives of technological urbanization to create new solutions in urban sustainability
- Strategized future-proof policies to address challenges in transportation, climate change, and economic growth

**Engineering Academic and Student Affairs** | College Station, TX

**August 2025 – Present**

*Teaching Assistant*

- Assisted over 300+ freshmen in general engineering courses (Engineering Computation Lab, Physics Mechanics Lab)
- Graded students' homeworks and exams and provided constructive feedback for student improvement and success within class
- Provided office hour support outside of classroom to ensure student success

*Hullabaloo U Peer Mentor*

- Provided valuable mentorship and advice to 30 first-year engineering students for their success

**Violin and Piano Tutor** | *Self-Employed* | Wylie, TX

**July 2022 – August 2024**

- Adapted a piano and violin curriculum to encourage students to perform successfully
- Tutored around 10 children in the Seis Lagos Community on how to play piano and violin